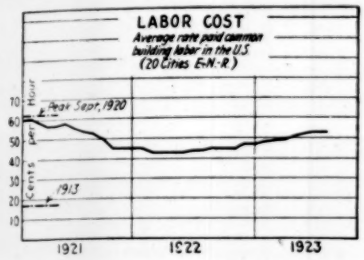
CONSTRUCTION NEWS

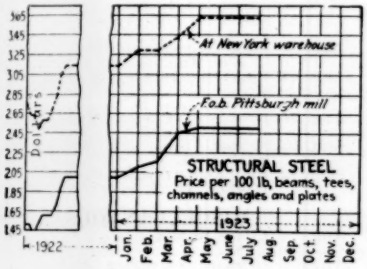
Engineering News-Record, August 2, 1923

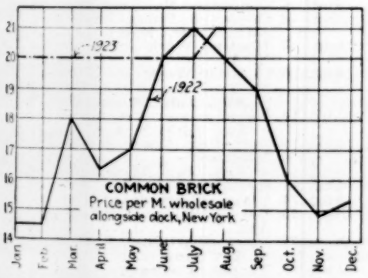
The Construction Barometer

Price Trend Toward Stabilization—Some Declines

THE undertone of the market appears to be steadier, particularly in steel and cement. The few changes occurring in these two materials in the last month have been upward. Common brick, in those districts affected by shortage, has developed a strong upward trend. Further recessions in pig-iron and lumber prices marked the first three weeks of July. During the last week of the month, however, these, together with most other materials, showed firmer tendencies. The average common labor rate for the nation has not changed since May. Of twenty-one cities reporting regularly to *E. N.-R.*, only two, New Orleans and St. Louis, show strikes or wage demands on the part of the skilled building crafts.




At New York warehouse
F.o.b. Pittsburgh mill
STRUCTURAL STEEL
Price per 100 lb. beams, tees, channels, angles and plates
Dollars
1922
1923
Jan Feb Mar Apr May June July Aug Sep Oct Nov Dec



E. N.-R. Statistics

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
July 12	$26,812,000	$27,135,000	$53,947,000
July 19	14,514,000	18,552,000	33,066,000
July 26	23,772,000	13,340,000	37,112,000
3 Weeks	$65,098,000	$59,027,000	$124,125,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

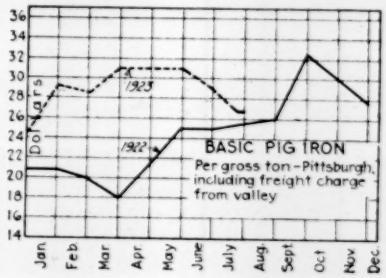
Week Ended	No.	Public Work	No.	Private Work
July 12	10	$2,409,000	32	$20,619,000
July 19	12	4,681,000	34	13,523,000
July 26	13	3,808,000	18	8,285,000
3 weeks	35	$10,898,000	84	$42,427,000

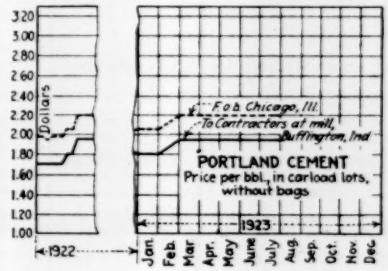
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

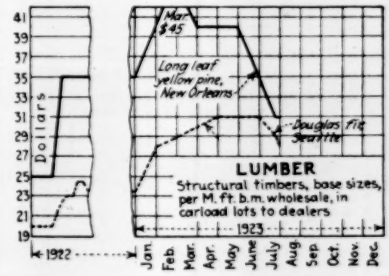
Week Ended	Private	Public: All	Public: Streets and Roads	Public: Waterworks and Sewers	All Buildings
July 12	32	161	73	38	42
July 19	30	223	86	37	42
July 26	33	261	95	50	41

BASE PRICES UNCHANGED IN MONTH

	Quoted On Aug. 2, at	Price Was	On
Structurals, Pittsburgh, 100 lb.	$2.50	$2.50 @2.60	June 21
Cement, Chi., net bbl	2.20	2.05	Feb. 1
Pine, N. Y., M.ft.	58.00	59.00	July 5
Fir, San Fran., M.ft.	41.00	39.00	Apr. 5
Common labor, hr	.54	.53	June 28


1923
1922
BASIC PIG IRON
Per gross ton—Pittsburgh, including freight charge from valley
Dollars
Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec


F.o.b. Chicago, Ill.
To Contractors at mill, Buffington, Ind
PORTLAND CEMENT
Price per bbl., in carload lots, without bags
Dollars
1922
1923
Jan Feb Mar Apr May June July Aug Sep Oct Nov Dec


Mar $45
Long leaf yellow pine, New Orleans
Douglas fir, Seattle
LUMBER
Structural timbers, base sizes, per M. ft. b.m. wholesale, in carload lots to dealers
Dollars
1922
1923
Jan Feb Mar Apr May June July Aug Sep Oct Nov Dec

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Aug. 6	Stone Harbor, N. J.	July 19
Aug. 6	Flandreau, S. D.	July 26
Aug. 6	Cumberland, Md.	Aug. 2
Aug. 7	Bedford, O.	July 26
Aug. 7	St. Paul, Minn.	Aug. 2
Aug. 7	New London, Wis.	Aug. 2
Aug. 10	Cleveland, O.	July 26
	Adv. July 26 and Aug. 2.	
Aug. 10	Ralston, Pa.	Aug. 2
Aug. 10	Cleveland, O.	Aug. 2
Aug. 10	Waupun, Wis.	Aug. 2
Aug. 10	New York	Aug. 2
Aug. 10	Mt. Pleasant, N. Y.	Aug. 2
Aug. 10	Brooklyn, N. Y.	Aug. 2
Aug. 14	Douglas, Wyo.	July 26
Aug. 14	Maple Shade, N. J.	Aug. 2
	Adv. Aug. 2.	
Aug. 14	New York, N. Y.	Aug. 2
	Adv. July 26 and Aug. 2.	
Aug. 15	Jennings Lodge, Ore.	July 26
Aug. 15	Memphis, Tenn.	July 26
Aug. 15	Wellsburg, W. Va.	July 26
Aug. 16	Evanston, Ill.	July 19
Aug. 21	Detroit, Mich.	July 26
Aug. 22	Andrews, S. C.	July 26
Aug. 22	Joy, Ill.	Aug. 2
	Adv. Aug. 2.	
Aug. 22	Central Islip, N. Y.	Aug. 2
	Adv. Aug. 2.	
Aug. 26	Pennington, N. J.	July 26
Aug. 27	San Diego, Calif.	July 26
Aug. 29	Watertown, S. D.	July 26
	Adv. July 26 and Aug. 2.	

SEWERS

Bids Close		See Eng. News-Record
Aug. 6	Euclid, O.	July 26
Aug. 6	Wichita, Kan.	Aug. 2
Aug. 7	Rhinelander, Wis.	July 19
Aug. 7	Bedford, O.	July 26
Aug. 7	Ashland, Ky.	Aug. 2
Aug. 7	Canton, O.	Aug. 2
Aug. 8	Baltimore, Md.	July 26
	Adv. July 26 and Aug. 2.	
Aug. 8	Richmond Heights (St. Louis P. O.), Mo.	Aug. 2
Aug. 8	Brooklyn, N. Y.	Aug. 2
Aug. 9	Marshfield, Wis.	Aug. 2
Aug. 9	Tracy, Calif.	Aug. 2
Aug. 9	New York, N. Y.	Aug. 2
Aug. 9	Long Island City, N. Y.	Aug. 2
Aug. 10	Millville, N. J.	July 26
Aug. 10	Harrison, N. Y.	Aug. 2
	Adv. Aug. 2.	
Aug. 10	New York	Aug. 2
Aug. 13	Arvada, Colo.	July 12
Aug. 13	Pensauken (Camden P. O.), N. J.	July 19
Aug. 13	Leonia, N. J.	Aug. 2
	Adv. July 26 and Aug. 2.	
Aug. 16	Haddonfield, N. J.	July 26
Aug. 19	Alliance, O.	Aug. 2
Aug. 21	Toronto, Ont.	Aug. 2
Aug. 22	Andrews, S. C.	July 26
Aug. 22	High Point, N. C.	Aug. 2
	Adv. Aug. 2.	
Aug. 24	Spencer, W. Va.	July 26

Bids Close		See Eng. News-Record
WASTE DISPOSAL		
Aug. 28	St. Louis, Mo.	Aug. 2
BRIDGES		
Aug. 3	New York	July 26
Aug. 6	California	July 19
Aug. 6	North Adams, Mass.	July 26
Aug. 6	Daytona, Fla.	July 26
Aug. 6	Yreka, Calif.	July 26
Aug. 7	Beaumont, Tex.	July 5
Aug. 7	Forrestville, Conn.	July 26
Aug. 7	Alcova, Wyo.	Aug. 2
Aug. 8	Ventura, Calif.	July 26
Aug. 8	Illinois	Aug. 2
Aug. 9	Charleston, Miss.	Aug. 2
Aug. 10	Murfreesboro, Tenn.	July 19
Aug. 13	New Jersey	July 26
	Adv. Aug. 2.	
Aug. 14	Charleston, S. C.	July 5
Aug. 14	Baton Rouge, La.	July 26
Aug. 14	Annapolis, Md.	Aug. 2
	Adv. Aug. 2.	
Aug. 15	Phila., Pa.	July 5
	Adv. July 19 and Aug. 2.	
Aug. 16	Effingham, S. C.	Aug. 2
Aug. 17	Allenhurst, Fla.	July 26
Aug. 17	Clendenin, W. Va.	July 26
	Adv. July 26 and Aug. 2.	
Aug. 17	Marion, S. C.	Aug. 2
Aug. 20	Minneapolis, Minn.	Aug. 2
Aug. 23	Clearwater, Fla.	July 26
Sept. 11	New Jersey	July 26
	Adv. July 26 and Aug. 2.	
Nov. 30	Sydney, Australia	Apr. 19
	Adv. Apr. 19, May 3, June 7, July 5 and Aug. 2.	
EXCAVATION, DRAINAGE, IRRIGATION		
Aug. 6	New York, N. Y.	Aug. 2
Aug. 8	Sioux City, Ia.	July 19
Aug. 8	Oroville, Calif.	Aug. 2
Aug. 8	Portage, Wis.	Aug. 2
Aug. 15	Minneapolis, Minn.	Aug. 2
Aug. 15	New Jersey	Aug. 2
STREETS AND ROADS		
Aug. 3	Altoona, Pa.	Aug. 2
Aug. 4	Cleveland, O.	Aug. 2
Aug. 6	Sayre, Okla.	July 12
Aug. 6	St. Paul, Minn.	July 19
Aug. 6	Park Ridge, N. J.	July 26
	Adv. July 26 and Aug. 2.	
Aug. 6	Cleveland, O.	July 26
Aug. 6	Yreka, Calif.	July 26
Aug. 6	Belzoni, Miss.	July 26
Aug. 6	Lewistown, Pa.	July 26
Aug. 6	New Jersey	July 26
	Adv. July 26 and Aug. 2.	
Aug. 6	California	July 26
Aug. 6	St. Paul, Minn.	July 26
Aug. 6	De Land, Fla.	July 26
Aug. 6	Michigan	July 26
Aug. 6	New York	Aug. 2
	Adv. Aug. 2.	
Aug. 6	Cameron, W. Va.	Aug. 2
Aug. 6	Dayton, O.	Aug. 2
Aug. 6	Portage, Pa.	Aug. 2
Aug. 6	Highland Park, N. J.	Aug. 2
	Adv. July 26 and Aug. 2.	
Aug. 6	Bloomfield, N. J.	Aug. 2
Aug. 6	Valley City, N. D.	Aug. 2
Aug. 6	St. Paul, Minn.	Aug. 2
Aug. 6	Milwaukee, Wis.	Aug. 2
Aug. 7	St. Louis, Mo.	July 12
Aug. 7	Pennsylvania	July 19
Aug. 7	Beaumont, Tex.	July 19
Aug. 7	Wapallo, Ia.	July 26
Aug. 7	Quebec	July 26
Aug. 7	Rayville, La.	July 26
Aug. 7	Louisiana	July 26
Aug. 7	Gulfport, Miss.	July 26
Aug. 7	Baton Rouge, La.	July 26
	Adv. July 26 and Aug. 2.	
Aug. 7	Michigan	July 26
Aug. 7	North Milwaukee, Wis.	July 26
Aug. 7	Washington	July 26
Aug. 7	Mississippi	Aug. 2
Aug. 7	Michigan	Aug. 2
Aug. 7	Decatur, Tex.	Aug. 2
Aug. 7	Maryland	Aug. 2
	Adv. Aug. 2.	
Aug. 7	Trenton, N. J.	Aug. 2
Aug. 7	Wyoming	Aug. 2
Aug. 7	Ft. Worth, Tex.	Aug. 2
Aug. 7	Linton, Ind.	Aug. 2
Aug. 8	Pennsylvania	July 19
Aug. 8	Freehold N. J.	July 26
	Adv. July 26 and Aug. 2.	
Aug. 8	Mays Landing, N. J.	July 26
Aug. 8	Florida	July 26
Aug. 8	Dover, Del.	July 26
Aug. 8	Knoxville, Ia.	July 26
Aug. 8	Michigan	July 26
Aug. 8	Richmond Heights (St. Louis P. O.), Mo.	Aug. 2
Aug. 8	Illinois	Aug. 2
Aug. 8	Cleveland, O.	Aug. 2
Aug. 8	Michigan	Aug. 2
Aug. 8	Peru, Ind.	Aug. 2
Aug. 8	Montreal, Que.	Aug. 2
Aug. 8	Martinez, Calif.	Aug. 2
Aug. 8	Irvington (Newark P. O.), N. J.	Aug. 2
Aug. 9	Michigan	July 26
Aug. 9	Gulfport, Miss.	July 26
Aug. 9	Walterboro, S. C.	July 26
Aug. 9	Michigan	Aug. 2
Aug. 9	Logansport, Ind.	Aug. 2
Aug. 9	New York, N. Y.	Aug. 2
Aug. 10	Utah	July 26
Aug. 10	New York	July 26
	Adv. July 26 and Aug. 2.	
Aug. 10	Tennessee	July 26
Aug. 10	Bennington, Kan.	July 26
Aug. 10	Greensburg, Pa.	July 26
Aug. 10	Cincinnati, O.	Aug. 2
Aug. 10	Michigan	Aug. 2
Aug. 10	Sayre, Okla.	Aug. 2
Aug. 10	Indiana	Aug. 2
Aug. 11	Grenada, Miss.	July 19
Aug. 11	Grenada, Miss.	Aug. 2
Aug. 13	Akron, O.	July 26
Aug. 13	California	July 26
Aug. 13	White Bear (White Bear Lake P. O.), Minn.	July 26
Aug. 13	Kansas City, Kan.	July 26
Aug. 13	Forest, Miss.	Aug. 2
Aug. 14	St. Louis, Mo.	July 19
Aug. 14	Fayetteville, W. Va.	July 19
	Adv. July 19 to Aug. 2.	
Aug. 14	Louisiana	July 26
Aug. 14	Bluefield, W. Va.	July 26
	Adv. July 26 and Aug. 2.	
Aug. 14	Clarksburg, W. Va.	July 26
Aug. 14	Meridian, Miss.	Aug. 2
Aug. 14	Maryland	Aug. 2
	Adv. Aug. 2.	
Aug. 15	Ripley, W. Va.	Aug. 2
Aug. 15	Birmingham, Ala.	Aug. 2
Aug. 18	Abbeville, La.	Aug. 2
Aug. 21	Virginia	Aug. 2
	Adv. Aug. 2.	
Aug. 23	Clearwater, Fla.	July 26
Aug. 23	Yakima, Wash.	July 26
Aug. 27	Bessemer, Ala.	July 26
Aug. 27	Iola, Kan.	Aug. 2
Aug. 28	St. Louis, Mo.	Aug. 2
Aug. 29	Kentucky	Aug. 2
INDUSTRIAL WORK		
Aug. 6	East View, N. Y.	July 26
Aug. 6	Forest City, Ark.	Aug. 2
BUILDINGS		
Aug. 6	Syracuse, N. Y.	July 19
Aug. 6	Scotia, N. Y.	July 26
Aug. 6	Scranton, Pa.	July 26
Aug. 6	Norwood (Cincinnati P. O.), O.	Aug. 2
Aug. 6	Milwaukee, Wis.	Aug. 2
Aug. 7	Corsicana, Tex.	July 12
Aug. 7	Alpena, Mich.	July 26
Aug. 8	Arkansas City, Kan.	Aug. 2
Aug. 8	Wash., D. C.	Aug. 2
	Adv. Aug. 2.	
Aug. 8	Detroit, Mich.	Aug. 2
Aug. 8	Kew Gardens (Jamaica P. O.), N. Y.	Aug. 2
Aug. 9	Granville, O.	July 19
Aug. 9	Redondo, Calif.	Aug. 2
Aug. 10	New Orleans, La.	July 19
Aug. 10	Union Grove, Wis.	Aug. 2
Aug. 10	Portsmouth, O.	Aug. 2
Aug. 11	Centerville, Calif.	July 19
Aug. 13	Zanesville, O.	July 19
Aug. 13	Cincinnati, O.	Aug. 2
Aug. 14	Nashville, Tenn.	July 19
Aug. 14	Brooklyn, N. Y.	July 26
Aug. 15	Eagle Lake, Tex.	July 19
Aug. 15	Amsterdam, N. Y.	July 19
Aug. 15	Dallas, Tex.	July 12
Aug. 15	Dallas, Tex.	July 19
Aug. 15	Amsterdam, N. Y.	Aug. 2
Aug. 15	Los Angeles, Calif.	Aug. 2
Aug. 15	Louisville, Ky.	Aug. 2
Aug. 15	St. Louis, Mo.	Aug. 2
Aug. 16	Nashville, Tenn.	July 19
Aug. 20	Williamstown, Mass.	July 26
Aug. 20	Ft. Worth, Tex.	July 26
Aug. 21	Hartford, Conn.	July 19
Aug. 22	Cedar Rapids, Ia.	Aug. 2
Aug. 23	Harrisburg, Pa.	Aug. 2
	Adv. July 26 and Aug. 2.	
Aug. 28	Akron, O.	Aug. 2
Sept. 4	Wende (Millgrove P. O.), N. Y.	July 26
Sept. 15	Dallas, Tex.	July 26
Sept. 28	Institute, W. Va.	July 26
Sept. 28	Pruntytown (Grafton P. O.), W. Va.	Aug. 2
Nov. 1	Ft. Worth, Tex.	July 12
Nov. 1	Dallas, Tex.	Aug. 2
FEDERAL GOVERNMENT WORK		
Aug. 3	Dredging, etc.—Buffalo, N. Y.	July 26
	Adv. July 19 to Aug. 2.	
Aug. 6	Extension—Spartanburg, S. C.	July 12
Aug. 6	Removal—Seattle, Wash.	July 19
Aug. 6	Road—New Mexico	July 26
Aug. 7	Water System, Neenah, Wis.	July 12
Aug. 7	Driveway—Fond du Lac, Wis.	July 12
Aug. 7	Fire Protection System—Wash., D. C.	Aug. 2
Aug. 8	Buildings—St. Julien Creek, Va.	July 12
Aug. 8	Remodeling—Concord, N. H.	July 12
Aug. 8	Mailing Shed—Ft. Scott, Kan.	July 19
Aug. 8	Water Softening Plant — Annapolis, Md.	July 26
Aug. 8	Reroofing—Chelsea, Mass.	July 26
Aug. 8	Bridge—Alaska	Aug. 2
Aug. 9	Lookout — Port Huron, Mich.	July 19
Aug. 9	Dredging — New York, N. Y.	Aug. 2
	Adv. Aug. 2.	
Aug. 10	Removal of Pile Protection —Chicago, Ill.	July 19
	Adv. July 19 to Aug. 2.	
Aug. 10	Lookout—Wheeling, W. Va.	July 19
Aug. 13	Dredging—Baltimore, Md.	July 12
	Adv. July 19 to Aug. 2.	
Aug. 13	Stamp Cages—New Orleans, La.	July 19
Aug. 14	Road—Zion National Park (Springdale P. O.), Utah.	July 19
Aug. 14	Buildings—Knoxville, Ia.	July 19
	Adv. July 26 and Aug. 2.	
Aug. 15	Water Supply — Chelsea, N. Y.	July 26
Aug. 15	Barracks, etc.—San Diego, Calif.	July 26
Aug. 15	Road—Arizona	Aug. 2
Aug. 15	Riprap Stone—Baltimore, Md.	Aug. 2
Aug. 16	Extension—Evanston, Ill.	July 26
Aug. 16	Stone — Harbor Beach, Mich.	Aug. 2
Aug. 17	Dredging—Massachusetts	July 26
	Adv. July 19 to Aug. 2.	
Aug. 20	Shed, etc.—Wash., D. C.	Aug. 2
Aug. 22	Dredging—Norwalk, Conn.	July 26
	Adv. July 26 and Aug. 2.	
Aug. 22	Sub Post Office—Memphis, Tenn.	July 26
Aug. 23	Lock—Pittsburgh, Pa.	Aug. 2
	Adv. July 26 and Aug. 2.	
Aug. 28	Superstructure—Ludington, Mich.	July 26
	Adv. July 19 to Aug. 2.	
Aug. 30	Dredging—Boston, Mass.	Aug. 2
	Adv. Aug. 2.	
Sept. 12	Storage Bins, etc.—Pearl Harbor, H. T.	July 19
Sept. 12	Bins and Trestle — Pearl Harbor, H. T.	Aug. 2
MISCELLANEOUS		
Aug. 3	Concrete Mixer, etc.—Trenton, N. J.	July 26
Aug. 6	Cement, etc.—San Diego, Calif.	July 26
Aug. 6	Conduits—Montreal, Que.	Aug. 2
Aug. 6	Creosoted Piling, etc. — Mayersville, Miss.	Aug. 2
Aug. 7	Heating Work—Syracuse, N. Y.	July 26
Aug. 10	Heating Work, etc.—Hudson, N. Y.	July 26
	Adv. July 26 and Aug. 2.	
Aug. 10	Heating and Ventilating, etc. —New York, N. Y.	Aug. 2
Aug. 11	Operating Quarries — Missouri	July 26
	Adv. July 26 and Aug. 2.	
Aug. 11	Ice Arena—London, Ont.	July 26
Aug. 14	Levee—Clarksdale, Miss.	Aug. 2
Aug. 15	Levee—Bridge Junction, Ark.	Aug. 2
Aug. 22	Pier—Charleston, S. C.	Aug. 2
	Adv. Aug. 2.	
Aug. 25	Tunnel—Colorado	July 26
Aug. 31	Cable and Accessories — Melbourne, Australia	June 21
Feb. 28	Headworks — Wellington, New Zealand	May 24

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. C., Elizabeth City — See "Industrial Works."

Fla., Daytona—Plans election to vote on $100,000 bonds improving waterworks and extending distribution system. R. P. Wilson, acting city mgr.

Tenn., Nashville—Plans new filter plant unit, force main from reservoir to pumping station and new 600 hp. steam boiler for plant. G. Reyer, supt. waterworks.

Ark., Marianna—Making plans reconstructing pumping plant, mains, sewer improvements, etc. Plans to issue $200,000

Waterworks (Continued)

bonds. T. H. Allen, 510 Bank of Commerce, Memphis, Tenn., engrs.

O., Barberton—Plans to sell $275,000 bonds for water plant. Wolf Run. W. R. Alcorn, City Bldg., engr. G. Clark, Toledo, consult. engr.

Wis., Athens—Plans water and sewerage systems, incl. water supply, pumping equipment, water and sewer mains, sewage disposal plant. $75,000. Engineer not selected.

Wyo., Casper—Aug. 7 to vote on $200,000 bonds for waterworks incl. 1 m.g. reservoir $75,000, mains, etc. $125,000. F. S. Knittle, city engr. Noted June 7.

Mo., Burlington Junction—Election soon to vote on $50,000 bonds for pumping plant and distributing system. E. T. Archer & Co., New England Bldg., Kansas City, engrs.

Tex., Brenham — Plans sedimentation basins and filtration plant $30,000-$35,000. L. H. Earnest, city engr.

Ia., Morning Sun—Plans waterworks improvements. $15,000. W. B. Garvin, clk.

Okla., Cushing—Having plans prepared reservoir, pipe lines, purification plant and pumping machinery. $250,000. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs. Noted May 17.

Colo., Denver — Plans to install 10 mg. steam turbine driven centrifugal pump at Capitol Hill station, $14,210, 8 mg. electric motor driven centrifugal pump at Ashland Ave. station $4,820, one 4 mg. electric motor driven centrifugal pump at University Park pumping station, $2,945. A. K. Vickery, city engr.

Ont., Durham — Will vote on $40,000 bonds for waterworks. Prices wanted on standpipe, pumps and mains. W. B. Vollett clk.

BIDS DESIRED

New York — Aug. 10, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Queens Blvd., Bway., 8th St. and Newton Rd. Jackson, Trimble and Woodside Aves., in Boro of Queens.

N. Y., Brooklyn — Aug. 10, by N. J. Hayes, comr. Water Supply & Electricity, Municipal Bldg., New York, mains in Ocean Parkway, Ave. P and 65th St., here.

N. Y., Central Islip—Aug. 22, by State Hospital Comn., Albany, sanitary work—deep well, at Central Islip State Hospital here. S. W. Jones, Albany, state archt., adv. this issue.

N. Y., Mount Pleasant—Aug. 10, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, removing old Croton Aqueduct arch over Bway. near North Tarrytown, here, and installing inverted steel syphon, venturi meter and appurtenances.

N. Y., New York—Aug. 14, by Bd. Water Supply, Municipal Bldg., making test borings in Boros of Bronx, Queens and Brooklyn, New York City, city of Yonkers, Westchester Co., Contr. 214. G. J. Gillespie, pres.; adv. this issue.

N. J., Maple Shade—Aug. 14, by Com. Chester Twp., steel stand pipe and foundation. Remington & Vosbury, 601 Market St., Camden, engrs.; adv. this issue.

Pa., Ralston—Aug. 10, by Ralston Water & Water Power Co., rein.-con. reservoir, 100 m.g. capacity, and 4,500 lin.ft. 4-6 in. c.i. mains. About $40,000. M. H. Krause, Susquehanna Trust Bldg., Williamsport, engr.

Md., Cumberland—Aug. 6, by Mayor and City Council at office of City Clerk, laying 8,260 lin.ft. 36 in. concrete pipe, 9 valve chambers, 43 tons c.i. specials and connections, 8 blow-off connections. R. L. Rizer, city engr.

O., Cleveland—Aug. 4, by Cuyahoga Co., 24,730 ft. 8 and 12 in. c.i. mains in Pleasant Valley and Broadview Rds., Impvt. 41. F. R. Lander, Court House, engr.

O., Cleveland—Aug. 10, 973 tons c.i. mains in Superior Ave., 8,000 cu.yd. excav., Contr. 28. $125,000. Former bids rejected. G. W. Hamlin, City Hall, engr. Noted July 26.

Ill., Troy—Aug. 22, complete water distribution system. Caldwell Eng. Co., Jacksonville, engrs.; adv. this issue.

Wis., New London—Aug. 7, by C. J. Thompson, city clk., rein.-con. reservoir, 200,000 gal. capacity. $20,000. H. R. Albert, c/o Court House, Green Bay, engr.

Wis., Waupun—Aug. 10, by Water & Light Com., 200,000 gal. rein.-con. circular reservoir, 58 ft. diam., 8 ft. deep, incl. piping and manholes. Kaudy & Dick Eng. Co., Ripon, engrs.

Minn., St. Paul—Aug. 7, by H. W. Austin, city purch. agt., 1 triplex portable pump, gasoline engine driven, for Water Dept.; 499,736 tons reinforcing, 20,000 bbl. portland cement for Mississippi River conduit. G. M. Shepard, city engr.

BIDS RECEIVED

N. Y., Brooklyn—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York July 24, mains in Rockaway Blvd., from S. Gallucci, Corona, $396,000. Noted July 19.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Ave. D, Huntley Dr., Bradford Pl., Newton, 58th, and head of Vleigh Rds., Woolsey, 12th, Gardiner, Hammel, Maurice, 12th, 32nd, 34th and 59th Aves., Chauncey, Crescent, Howland, Merchant, Sunswick, 15th, 118th, 164th, 165th, 189th and 206th Sts., here, from J. A. Gregory, Inc., 351 East 124th St., New York, $27,649. Noted July 19.

N. Y., New York—J. Miller, pres. Manhattan Boro., Municipal Bldg., July 24, mains in Madison and Pinehurst Aves., West 44th, 174th, 175th and 183rd Sts., from Knight & Demicco, Inc., 448 East Tremont Ave., $19,863. Noted July 19.

O., Cleveland—Cuyahoga Co., 4,800 ft. of 12 in. c.i. mains in Sect. B of Impvt. 20 of Co. Sewer Dist., from Langahan Constr. Co., Marshall Bldg., $28,055.

O., Cleveland—For 2,390 tons c.i. mains for West Side 1st High Service Main, Sect. 1, 11,500 cu. yd. excav., from Division of Water, from D. Lowensohn, Fairchild Ave., $268,623. Noted July 12.

Wash., Seattle—Watermains in 35th Ave. S. W., 2,940 ft. 20 in., 64 ft. 16 in. and 24 ft. 8 in. pipe, from Tomano & Co., Seattle, $28,698. Engrs. est. $30,573.

CONTRACTS AWARDED

O., Cleveland—Piping for main pumping units at Fairmount Pumping Station, to Natl. Valve & Mfg. Co., 3101 Liberty Ave., Pittsburgh, Pa., $66,976. Noted July 26.

O., Lyndhurst (Cleveland Heights, P. O.)—For 8,080 ft. 6 and 8 in. c. i. mains in Churchill and Winchester Rds., to A. Marra Co., Ulmer Bldg., Cleveland, $21,364; 11,610 ft. 6 and 8 in. c.i. mains in Gordon Rd., Sunview and Irene Aves., to A. C. Hattendorf, Stop 14, Euclid Ave., Euclid Ave., Cleveland, $32,254.

O., Columbus—See "Streets and Roads."

Mich., Ecorse—Furnishing and laying 14,000 lin. ft. 6-8 in. c.i. water pipe, hydrants, valves, etc. in various streets, to J. McDace, 1992 Webb Ave., Detroit. $25,000.

Mich., Lincoln Park Village—Pump house and installing machinery for village water supply, to Oakwood Constr. Co., Oakwood Ave., Detroit, $15,000.

Ill., Anna—See "Sewers."

Ill., Niles—Mains to J. Donohue, Stevens Point, Wis. Engrs. est. $42,000. Noted June 28.

Ill., Vandalia—Will build 500,000 gal. filter plant, 600 ft. intake, chemical treatment plant, 1 mi. 4 in. c.i. mains, etc., by day labor. A. H. Beard, engr., Title Guaranty Bldg., St. Louis, Mo., will buy materials as needed. $30,000. Noted Nov. 2.

Wis., Oshkosh — Addition to filtration plant for pumping station, to Flour Bros. Constr. Co., 52 Otter St., $23,052.

Wis., Ft. Atkinson—Brick, rein.-con. and steel pumping station and 300,000 gal. reservoir, to T. S. Willis, 330 Hayes Blk., Janesville. Engrs. est. $15,000. Noted July 19.

Wash., Camas—Hauling and laying 8.5 mi. 8 and 10 in. welded steel pipe, furnishing and placing pipe line appurtenances, building intake structures and steel tank, 50,000 gal. capacity, to H. W. Troutman & Co., Securities Bldg., Seattle, $41,996. Noted July 12.

Que., Levis—Filtration plant to R. T. Smith Constr. Co., 27 Hillside Ave., Montreal, $154,000. Noted May 10.

Sewers

PROPOSED WORK

Fla., Daytona—Plans election to vote on $100,000 bonds for extending sewers. R. P. Wilson, acting city mgr.

Mich., Romeo—Had plans prepared 6,500 ft. 8-10 in. vitr. crock sewer extensions in various streets. Ruhling, Holdsworth & Hudson, 16549 Woodward Ave., Highland Park, engrs.

Ark., Marianna — Making preliminary plans and soon takes bids sanitary and storm sewerage system. $79,000. T. H. Allen, Bank of Commerce Bldg., Memphis, Tenn., engr.

Ark., Newport—Making plans storm and sanitary sewers in 15 blocks East Newport. $25,000. Bowman Eng. Co., Newport, engrs.

Wyo., Casper—Aug. 7 to vote on $75,000 bonds for storm sewer extensions. F. S. Knittle, city engr. Noted June 7.

Calif., Porterville—Had plans prepared 1,900 lin.ft. 8 in. vitr. main sewer and 3,035 lin.ft. 6 in. vitr. lateral sewers, etc., in Orange, Howard and Date Sts. (Cornell Addition). F. Pease, city engr.

Ont., Hamilton — Plans 15,000 ft. vitr. tile sanitary sewers in North Oval, Arkell, Marion and Paisley Aves., 8 in. up. $40,000. W. L. McFaul, city engr.

Ont., Niagara Falls—Stamford Twp. will vote for $281,000 bonds for sewerage system. M. Kerr, Ferry St., engr. Noted Apr. 19.

Ont., Port Elgin—Having plans prepared sewerage system. $35,000. Engineer not selected.

Ont., Toronto — Having plans prepared large sanitary sewerage system in northern section of city, concrete, brick and tile, $8,811,700, also concrete disposal plant, $1,000,000. R. C. Harris, city engr.

BIDS DESIRED

New York—Aug. 10, by Transit Comn., 49 Lafayette St., New York City, miscellaneous drainage and sewers in Boroughs of Manhattan, Brooklyn and Queens, Agreement "CO."

N. Y., New York—Aug. 9, by J. Miller, pres. Manhattan Boro, Municipal Bldg., altering and improving sewer in East 12th St.; altering and improving sewer crossing West St. near Duane St. and in West St. between Duane and Jay Sts.

N. Y., Brooklyn—Aug. 8, by E. Riegelmann, boro pres., Boro Hall, sewers in 84th St.

N. Y., Harrison—Aug. 10, by Bd. Sewer Comrs., extensions to sewage disposal plant, etc. A. Potter, 50 Church St., New York City, consult. engr.; adv. this issue.

N. Y., Long Island City—Aug. 9, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Voorhees and Coe Places, Station Rd., Cracow Court, Metropolitan and Sanford Aves., Hinman, Proctor, Steuben, Wayne, Pulaski, Banta, Idaho, Lake, 40th and 161st Sts., in Boro of Queens.

N. J., Bloomfield — See "Streets and Roads."

N. J., Irvington (branch of Newark)—See "Streets and Roads."

N. J., Leonia—Aug. 13, by Mayor and Boro Council, Boro Hall, septic tank, etc. C. H. Eckerson, 47 Dean St., Englewood, boro engr.; adv. this issue.

N. C., High Point—Aug. 22, by J. W. Hedrick, mayor and City Council at City Hall, constructing 3 pumping stations. A. E Taplin, city engr.; adv. this issue.

Ky., Ashland — Aug. 7, by T. Boggess, city engr., 25 mi. sanitary sewers. To exceed $40,000. Alvord, Burdick & Howson, 1417 Hartford Bldg., Chicago, engrs. Noted Apr. 12.

O., Alliance—Aug. 19, by W. W. Scott, dir. Pub. Serv., 8 in. sanitary sewers in State and Liberty Sts. $59,150.

O., Canton—Aug. 7, by Bd. Control, about 1 mi. trunk sanitary Sewer 1, Sewer Dist. 1. $75,000. W. E. Sarver, City Bldg., engr.

Wis., Marshfield—Aug. 9, by J. A. Schindler, city clk., 2,105 lin.ft. concrete trunk sewers in various streets, 8 manholes, 6 catch basins.

Kan., Wichita—Aug. 6, by City Comn., 25,335 lin.ft. 12-54 in. sewer in Riverside Dist. 112 catchbasins, 144 manholes, 475 cu.yd. concrete base, 2,845 sq.yd. cut pavement, 5,535 sq.yd. resurfaced pavement, 6,330 lin ft. combined curb and gutter, 1,860 sq.ft. side walk removed and replaced, etc. $175,000. P. L. Brockway, city engr.

Mo., Richmond Heights (St. Louis P. O.)—Aug. 8, by G. H. Skillman, city clk., 7409 Lavella Ave., 17,500 ft. 6-30, in. vitr. and 32-60 in. segmental block sewers, also 12,000 cu.yd. excav., in Dist. B. $65,000. Pitzmans Co. of Surveyors & Engineers, 615 Chestnut St., St. Louis, engrs. Noted June 14.

Calif., Tracy—Aug. 9, by G. L. Frerichs, city clk., sewage disposal plant, to include 6,400 ft. 18 in. vitr. concrete or wood stave outfall sewer, pumphouse, with gasoline motor and two pumps, 2 units of Imhoff tanks with appurtenances incl. sludge drying beds, dosing tank with Miller siphon, trickling filter with all appurtenances, 3 units of secondary settling tanks with appurtenances, 400 ft. 12 in. concrete, vitr. or wood stave overflow by-pass, boring well. C. F. Smith, 516 Santa Barbara Rd., Berkeley, consult. sanitary engr.

Ont., Toronto—Aug. 21 (change of date), by C. A. Maguire, mayor, furnishing two 2,880,000 gal. electric driven centrifugal sewage pumps. R. C. Harris, city engr. Noted July 12.

BIDS RECEIVED

Md., Baltimore—Bd. Awards, sewers and appurtenances in Dist. 25, 1,190 ft. 10-15 in. vitr. pipe sewer, 13,605 lin.ft. 6 in.

Sewers (Continued)

vitr. pipe sewer, 250 lin.ft. 5 in. vitr. pipe house connections, 480 lin.ft. c.i. pipe connections, from Marrocco & Martell, 609 South Decker Ave., $48,768. Noted July 19.

Mich., Detroit—Vitr. crock sewers 10-30 in., backfilling and brick manholes (1) Lateral sewer 3959 in blocks bounded by Bewick, Garland, Warren and Shoemaker Aves. (2) 3962 in blocks bounded by Bradford, Gratiot, Sanford and Whithorn Sts. (3) 3974 in blocks bounded by Roseberry, Nelson, Chelsea Promenade Sts. (4) 3975 in blocks bounded by Roseberry, Nelson, Promenade and Rosemary Sts. (5) 3975 in blocks bounded by Connors, Roseberry, Wade and Corbet Sts. (6) 3979 in blocks bounded by Cloverlawn, Fenkell, Roselawn and Puritan Aves., from W. Blanck Co., 827 Ford Bldg., (1) $14,900; Detroit Drainage Constr. Co., Detroit (2) $3,859; Oakwood Constr. Co., Oakwood Ave. (3) $19,700; Hammen & Co., 4612 Woodward Ave. (4) $13,249 (5) $19,498; J. Leo, 1762 Puritan St., (6) $9,300.

Calif., Redwood City—For 25,402 lin.ft. 4-8 in. vitr. and 125 lin.ft. 6 in. w.i. sewers in Hudson and Johnson Sts., etc., from Chambers & De Golyer, Bacon Bldg., Oakland, $19,890. Noted July 5.

Calif., Sacramento—For 3,360 lin.ft. 12-24 in. vitr. and 3,570 lin.ft. 27, 30 and 33 in. monolithic concrete sewers in 7th St., from Frederickson & Shannon, Cory Bldg., Fresno, $55,200. Noted July 12.

CONTRACTS AWARDED

O., Cleveland—For 700 ft. 5 ft. and 680 ft. 3 ft. circular E sewer in Bessemer Ave., to W. McDowell & Son Co., 10319 Miles Ave., $60,995. Noted July 19.

O., Cleveland Heights (Warrensville P. O.)—For 6,230 ft. 8-18 in. vitr. tile sewers in 3 streets, to Hadded Mall Co., Schofield Bldg., Cleveland, $15,668; 3,940 ft. 8-18 in. vitr. tile sewers in 2 streets, to Iafarnaro Constr. Co., 2218 Murray Hill Rd., Cleveland, $14,049.

O., Columbus—See "Streets and Roads."

O., Euclid — Sewers in 4 streets, to Hadded-Mall Co., Schofield Bldg., Cleveland, $47,315; 3 streets, to A. C. Hattendorf, Stop 14, Euclid Ave., Cleveland, $38,461; 2 streets, to J. B. Lynn, Euclid, $21,644; 1 street, to A. J. Galvin, Newman Stern Bldg., Cleveland, $23,762.

Mich., Ecorse—Extending sewers in various streets, incl. 13,147 ft. 18-10 in. vitr. pipe, 46 manholes, to T. F. Nolan, 22 Highland Ave., Highland Park, $25,000.

Mich., Springwells—Vitr. pipe and two ring brick sewers, with brick manholes, to Cusino-Mercier Co., Springwells, Assessment Dist. 9, $14,174, Dist. 10, $44,500, Dist. 16, $63,500; to Rennie & Dibble, Springwells, Dist. 11, $65,516, Dist. 12, $15,339; to C. R. Lennane, 2631 Woodward Ave., Detroit, Dist. 13, $3,194. Noted June 21.

Wis., Milwaukee—Storm sewers in Lincoln Ave., to M. Synovitz, 944 2nd Ave., $111,116; in Vine St., to W. T. Werner, 675 Hi Mount Blvd. $19,889.

Ill., Anna—Extension to sewer and water distribution systems, to F. Seifert & Son, Peoria, $55,000.

Wis., Milwaukee — Sewerage Com., 508 Market St., concrete foundation for 220 x 330 ft. filter and drier house on Jones Island, to P. Riesens Sons, 1018 Humboldt Ave., Milwaukee, $113,833. Noted July 12.

Kan., Pittsburg—Sanitary sewerage system, to Reed & Wheelock, Clay Center, $38,390.

Mo., St. Louis—See "Streets and Roads."

Calif., Los Angeles—To T. Haverty Co., 8th and Maple Sts., for outfall sewer, Sect. 11 $109,575, Sect. 12 $120,560, Sect. 13 $172,605, Sect. 14 $249,000; to Western Reinforced Concrete Pipe Co., 6th and Utah Sts., furnishing from 4 ft. 9 in. to 8 ft. 6 in. rein.-con. pipe for above, $822,312.

Ont., Owen Sound—F. F. Fry, 43 Scott St., Toronto, has taken over contract previously awarded to Mitchell Contg. Co., Elmwood Ave., London, for 5,000 ft. 12-42 in. rein.-con. sewer. Est. cost $50,000. Noted July 19.

Ont., Sandwich — Sewers in Fanchette Ave., to C. W. Cadwell, Sandwich St., Windsor, $4,341, Detroit, Rosedale, Peter, King and Bloomfield Aves., to S. P. West, Sandwich, $47,000.

Waste Disposal

BIDS DESIRED

Mo., St. Louis—Aug. 28, by Bd. Pub. Serv., 208 City Hall, 42 x 75 ft. brick incinerator, 36 ft. high, 150 ft. chimney, 4 forced draft furnaces, 100 ton daily capacity, De Tonty St. along tracks of Missouri Pacific R.R. $71,000. L. E. Bowen, 301 City Hall, engr.

Bridges

PROPOSED WORK

Alabama—State Hy. Dept., Montgomery, making plans 292 ft. treated timber bridge, Federal Aid Project 134, Choctaw Co. $29,000. W. S. Keller, state highway engr.

Ky., Lebanon Junction — Louisville & Nashville R.R. Co., 10th St. and Bway., Louisville, plans 350 ft. structural steel bridge over Rolling Fork, near here. $85,000. W. H. Courtenay, ch. engr.

O., Cleveland—Cuyahoga Co. having preliminary plans prepared and takes bids in fall 900 ft. concrete bridge, 80 ft., Hilliard Rd. $930,000. F. R. Lander, Court House, engr.

O., Niles—Trumbull Co. (Warren) plans 1,040 ft. rein.-con. viaduct, (including approaches) 60 ft. wide, 40 ft. roadway, here. $500,000.

Ill., Belleville—Plans rein.-con. bridge on Lebanon Ave., to replace wooden structure. $25,000-$30,000. C. A. Heinzelman, city engr.

Ill., Libertyville—Lake Co., (Waukegan) plans bridge east of here. $25,000. L. E. Russell, Waukegan, co. engr.

Missouri—State Hy. Dept., Jefferson City, plans one 50 ft. steel truss and two 16 ft. I-beam spans, on Sta. 42 plus 00, Boone Co.; one 40 ft. rein.-con. deck girder span, over King Mt. Creek, one 30 ft. rein.-con. deck girder span over Smith Draft, one 18 ft. rein.-con. slab span over Hutton Draft, three 20 ft. rein.-con. slab spans over Sims Valley Creek, three 25 ft., rein.-con. deck girder spans over Robins Draft, all Howell Co.; two 12 ft. rein.-con. slab spans over Wichet Creek, three 20 ft. rein.-con. slab spans over Milky Branch, eight 30 ft. I-beam spans over Davis Creek, Lafayette Co.; one 20 ft. rein.-con. slab span on Sta. 1392 plus 70, and one 40 ft. rein.-con. deck girder span over Arthur Creek, Texas Co.; two 10 ft. rein.-con. slab spans over Hampton Branch, and one 60 ft. steel truss span over Brush Creek, Iron Co.; eight 8 ft. rein.-con. slab spans, one 40 ft. and six 20 ft. I-beam spans over Medicine Creek, one 40 ft. and eight 20 ft. I-beam spans over Medicine Creek Drainage Ditch, ten 20 ft. I-beam spans over overflow of Medicine Creek, thirty 20 ft. rein.-con. slab spans over overflow Grand River, one 160 ft., one 60 ft. and two 120 ft. steel truss and thirty-two 20 ft. rein.-con slab spans over Grand River, all Livingston Co. B. H. Piepmeier, state highway engr.

Ark., Newport—See "Excavation, Drainage and Irrigation."

BIDS DESIRED

Md., Annapolis—Aug. 14, by State Rds. Comn., Baltimore, fill to approaches to Severn River Bridge, here, Contr. AB-10-E. J. N. Mackall, chn.; adv. this issue.

Virginia—See "Streets and Roads."

S. C., Effingham — Aug. 16, by S. R. Phillips, superv. Florence Co. (Florence), 3 bridges over Lynches River, near here, Federal Aid Project 180 B, one with 168 ft. through steel span, one with five 14 ft. and other with seven 14 ft. treated timber spans. J. M. Martin, Court House, Florence, engr.

S. C., Marion—Aug. 17, at office Marion Co. Comrs., 4 timber bridges over Lumber River, between Marion and Horry Counties, on State Route 3, Federal Aid Project 219, totaling fifty-two 14 ft. spans. J. M. Martin, Florence, engr.

Miss., Charleston—Aug. 9, by Supervs. Tallahatchie Co., constructing various bridges, 200,000 ft. creosoted structural timber and 12,000 lin.ft. creosoted wooden piling. H. J. French, Sumner, engr.

Miss., Forest—See "Streets and Roads."

Miss., Grenada—See "Streets and Roads."

Miss., Meridian—See "Streets and Roads."

Illinois—Aug. 8 by Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, constructing 19 rein.-con. girders, 14 rein.-con. slabs and 3 steel bridges, also 6 rein.-con. culverts. C. H. Older, ch. engr.

Minn., Minneapolis—Aug. 20, by A. P. Erickson, aud. Hennepin Co., three 80 ft. pony trusses, rein.-con. slab floor, 2 concrete piers and 2 concrete abutments, over Crow River, for Hennepin and Wright Counties. $25,000. J. W. Shaffer, co. surv.

Wyo., Alcova—Aug. 7, by State Hy. Dept. Cheyenne, steel truss bridge, two 161 ft. spans over North Platte River, near here, Natrona Co. $40,000. J. F. Seiler, state highway engr.

BIDS RECEIVED

New York—G. A. Whalen, comr. Plant & Structures, Municipal Bldg., New York City, July 30, piers for bridge over North Channel, Jamaica Bay Blvd., Queens Boro, from A. McMiller Co., $466,000. Noted July 26.

Kentucky — State Hy. Dept., Frankfort, two 170 ft. rein.-con. bridges, five 34 ft. spans, one over Grassey Creek, and other over Blackwater Creek, Federal Aid Project 95, Morgan Co., from Ellis & Smeathers, Owensboro, $32,451; 120 ft. rein.-con., four 30 ft. spans, over Triplett Creek, Federal Aid Project 67, Rowan Co., and 108 ft. rein.-con., with two 34 ft. and one 40 ft. span, over Bank Lick Creek, Federal Aid Project 62, Kenton Co., from Broadus & Forbes Co., Richmond, $9,725 and $20,782 respectively. Noted July 12.

O., Cleveland — Cuyahoga Co., July 21, concrete and steel bridge, Hillside Rd., from R. J. Burke Co., Newman-Stern Bldg., $53,068. Engrs. est. $68,385. Noted July 12.

Calif., Napa—Napa Co., July 23, rein.-con. over Napa River, on Oak Knoll Ave., 850 cu.yd. concrete, 161,000 lb. reinforcing, etc., from J. H. May, Napa, $29,977.

CONTRACTS AWARDED

Pa., Waynesburg — Comrs. Greene Co., 150 ft. concrete bridge, two 75 ft. spans, over South Ten Mile Creek, Waynesburg-Jefferson Rd., to Concrete Steel Bridge Co., Clarksburg, W. Va., $32,763. Noted July 5.

Alabama—State Hy. Dept., Montgomery, bridge on Federal Aid Project 125, 303 ft., 25 spans, treated timber, to S. P. Boyd, Columbus, Miss., $17,732; 512 ft. rein.-con. bridges on Federal Aid Project 123, Blount Co., to W. T. Weaver, Collinsville, $47,023; 703 ft. concrete girder bridges on Federal Aid Project 131, to Newell Contg. Co., 3828 Ave. A, Birmingham, $76,697.

Ala., Fairfield—Tennessee Coal, Iron and R.R. Co., Brown-Marx Bldg., Birmingham, substructure of single track railway bridge near here, 2 abutments, and 6 piers, 5,800 cu.yd. concrete, 6,000 cu.yd. excav., to Reid & Lowe, Brown-Marx Bldg., Birmingham, $50,000.

La., Algiers (New Orleans, P. O.)—New Orleans Commission Council reconstructing Newton St. viaduct, here, to Doullut & Williams, Howard St., New Orleans, $80,000. Cost to be borne by Southern Pacific Ry. and South New Orleans Street Ry. Noted May 10.

O., Akron—W. F. Peters, dir. Pub. Serv., 685 ft. concrete deck girder bridge, 60 ft. wide, 36 ft. roadway and two 12 ft. walks, State St., to T. E. McShaffrey Constr. Co., 171 South Forge St., $160,751. Noted July 19.

Wis., Milwaukee—Steel structure, double leaf trunnion bascule bridge on State St., superstructure to Milwaukee Bridge Co., 1400 34th St., $224,768; substructure to E. E. Gillen Co., 288 East Water St., $227,900. Noted July 26.

Missouri—See "Streets and Roads."

California—Yolo Co., Woodland, and Solano Co., Fairfield, 337 ft. rein.-con. bridge, 2 large and 2 small rein.-con. spans, over Putah Creek, to J. L. Webster, Chico, $41,230. Noted July 19.

Ontario—See "Railways."

Dams

PROPOSED WORK

N. H., Marlboro—See "Industrial Works."

Conn., Leesville (Moodus P. O.) — Connecticut Power & Light Co., East Hampton, plans raising dam on Salmon River, here, from 18 ft. to 78 ft. $500,000. Private plans.

Minn., Duluth—See "Miscellaneous" under "Minnesota."

Tex., Three Rivers—Atascosa Water Impvt. Dist. election soon to vote on $500,000 bonds for 60 x 600 ft. concrete dam, 12,000-16,000 acres irrigation by gravity system. C. Tipps, Three Rivers, interested. Terrell, Bartlett Engrs., Calcasier Bldg., San Antonio, engrs.

CONTRACT AWARDED

Ont., Timmins—See "Industrial Works."

Railways

PROPOSED WORK

Michigan—Detroit Dept. Street Ry., St. Jean and Shoemaker Aves., having plans prepared 3,000 ft. double track railway on Trumbull Ave. from Michigan Ave. to Fort St. W., Detroit, turn steel tie construction, $100,000. R. Schram, asst. genl. mgr.

Washington — Longview, Portland & Northern Ry., subsidiary to Long-Bell Lumber Co., Longview, plans 30 mi. railway from near Kelso, across Cowlitz River to Olequa. $2,991,722.

Manitoba—Manitoba Pulp & Paper Co. Ltd., c/o J. D. McArthur Co. Ltd., McArthur Blk., Winnipeg, soon takes bids constructing railway from Beaconia to Fort Alexander. $3,000,000.

Railways (Continued)

BIDS DESIRED

Texas—West Texas Utilites Co., Abilene, taking bids re building and electrifying 12 mi. Roby & Northern R.R. (recently purchased), new rolling stock to be purchased and brick station built at Roby. $100,000. P. Campbell, ch. engr.

CONTRACTS AWARDED

Ontario—Temiskaming & Northern Ontario Ry., North Bay, general contract for 25 mi. branch line from Swastika easterly to Kirkland and Larder Lakes, incl. grading, clearing, earth and rock excav., temporary trestles, concrete structures and foundations, track laying, ballasting and supplying timber, cement reinforcing steel and fences, to R. A. and I. A. Sinclair Co., Excelsior Life Bldg., Toronto. Contract for structural steel work in connection with bridges and trestles not yet awarded. Noted June 7.

Excavation, Drainage Irrigation

PROPOSED WORK

Mich., Detroit—See "Miscellaneous."

Fla., Daytona—Plans election to vote on $260,000 bonds for constructing park by dredging and filling. R. P. Wilson, acting city mgr.

Minn., Redwood Falls—Redwood Co. had plans prepared laying tile in Co. Ditch 73. $25,000. F. B. Forbes, Redwood Falls, engr.

Ark., Newport—Cache River D. D. plans system of drainage ditches in Jackson and Poinsett Counties along Cache River, several million cubic yards earth excav. also several bridges. $1,000,000. Engineer not selected.

Tex., Childress—T. B. Yarborough, 1310 Cannon Ave., plans to irrigate 100,000 acres land along North Pease River. $100,-000. Engineer not announced.

Ont., Woodstock—Plans improvements to sewerage system, new sludge beds, filters and extensions. J. Morrison, clk.

BIDS DESIRED

N. Y., New York — Aug. 6, by J. H. Delaney, comr. of Docks, Pier A, North River, dredging slip between Piers 61 and 62, North River, Contr. 1812.

New Jersey — Aug. 15, at office Dept. Commerce & Navigation, Trenton, dredging section of proposed inland waterway connecting Barnegat Bay with Manasquan River, Ocean Co. $55,000. H. J. Sherman, engr. V. Gelineau, State House, Trenton, dir.

Wis., Portage — Aug. 8, by H. V. Tennant, engr., Portage, 14,000 cu.yd. excav. in 1 mi. open ditching, laying 1,000 lin.ft. 16 in. tiling, etc., for Lewiston D. D., c/o Engineer.

Minn., Minneapolis—Aug. 15, by A. P. Erickson, aud. Hennepin Co., Judicial Ditch 2, 3,600 lin.ft. open ditch, 40,431 lin.ft. 6-36 in. tile, 10 surface inlets. $34,256. J. W. Shaffer, co. surv.

Calif., Oroville—See "Miscellaneous."

BIDS RECEIVED

La., New Orleans—Bd. Port Comrs., 200 New Court Bldg., deepening and widening industrial Canal between lock and Florida Walk. (a) dredging 750,000 cu.yd. (b) dredging 1,500,000 cu.yd., from United Dredging Co., 233 Bway., New York City. (a) $225,000, from Atlantic, Gulf & Pacific Dredging Co., 13 Park Row, New York City. (b) $390,000. Noted July 12.

CONTRACTS AWARDED

Wis., Racine—See "Miscellaneous."

Ia., Ottumwa — Wapello Co., drainage ditch and improvements in Cedar Creek D.D. 4, 256,834 cu.yd. and D.D. 6, 148,233 cu.yd., to Rude & Wold, Pomeroy, $0.0871 per cu.yd. Noted June 14.

Minn., Albert Lea—Freeborn Co., Judicial Ditch 6, 300,000 cu.yd. excav., 200,000 lin.ft. 6-24 in. tile, to W. Martin, Albert Lea, $181,782. Noted July 12.

Tex., Point Isabel — State and Federal Government, dredging Port Isabel Channel, 18 ft. depth, to J. Jacobson, Galveston, $314,000.

Streets and Roads

PROPOSED WORK

New York—F. S. Greene, comr. Highways, Albany, received no bids July 20, constructing 0.6 mi. Repair Contr. 3035, Highway 508, Albany Co. $35,941. Noted July 12.

N. J., Montclair—Plans grading, concrete curbing and paving 1,600 ft. Cooper Ave., 32 ft., 2 in. warrenite, 2 in. National, 3 in. sheet asphalt or 2 in. amesite on 6 in. concrete. To exceed $25,000. W. H. Warnock, Town Hall, engr.

Pennsylvania—Supervs. Reade Twp., c/o Controller Cambria Co., (Ebensburg), plan paving 3 mi. roads in Frugality, Glasgow, Fallen Timber and Blandburg, concrete, brick or bituminous material. $127,000 bonds voted.

West Virginia—State Rd. Comn., Charleston, rejected bids opened July 24, grading and paving 5 mi. Project 3186, Thomas-Gnegy Church Rd., Preston Co., concrete, 18 ft., 1.5 mi. Projest 3197-B, Sistersville-Middleburne Rd., Tyler Co., waterbound macadam, 18 ft.; paving 1 mi. Project 3114-B and D, River Rd., Brooke Co., concrete, 18 ft.; received no bids paving 0.8 mi. Project 3176, River Rd., Brooke Co., concrete, 18 ft.; rejected bids constructing Five Mile Bridge 857, concrete deck girder, 60 ft. span, and Three Mile Bridge 858, concrete deck girder, 35 ft. span, across Five and Three Mile Creeks, Mason Co.; received no bids 8 x 10 ft. concrete culvert over Springdale Creek, Project 2064, Ohio Co. Will readvertise soon. Noted June 28.

N. C., Elizabeth City—See "Industrial Works."

N. C., Fayetteville—Plans paving various streets. $300,000. H. McD. Robinson, mayor.

Fla., Cocoa—Voted $33,000 bonds paving and resurfacing streets. J. J. Bracco, city clk. Noted Apr. 26.

Fla., Daytona—Plans election to vote on $200,000 bonds paving streets and avenues. R. P. Wilson, acting city mgr.

Fla., DeLand—Volusia Co. voted $170,-000 bonds for Rd. 3 from DeLand to Orange City, Harden Ferry Bridge, Enterprise and Osteen. C. M. Rogers, DeLand, engr.

Alabama—State Hy. Dept., Montgomery, making plans grading and gravel surfacing 9.756 mi. road, 24 ft. roadway, 18 ft. surface, Federal Aid Project 134, Choctaw Co. $153,637. W. S. Keller, state highway engr.

La., Natchitoches—Police Jury Natchitoches Parish authorized Rd. Dist. 31 to sell $125,000 bonds Aug. 6, for hard surfaced roads. A. Tanzier, secy.

Tenn., Hartsville—Trousdale Co. plans 6 mi. highway from here to Sumner Co. line, 12 ft. $30,000 voted.

Tenn., Lawrenceburg — Lawrence Co. plans 14 mi. highway from here to Maury Co. line, 16 ft Work will probably be done by county forces.

Tenn., Waverly—Humphrey Co. making plans grading 12 mi. highway, 18 ft.

Kentucky—State Hy. Dept., Frankfort, making plans grading 5.11 mi. Whitesburg-Hazard Rd., Federal Aid Project 4, Fletcher Co., 24 and 28 ft. J. S. Boggs, state highway engr.

Ky., Manchester—Clay Co. plans road work. $160,000 bonds sold.

Ky., Paducah—McCracken Co. plans hard surfacing 5-6 mi. Cairo Rd. B. Weille, comr.

O., Canton — Plans asphalt paving and brick guttering about 1 mi. Market Ave. S. 60 ft., $60,000-$75,000. W. E. Sarver, City Bldg., engr.; widening about 1 mi. West Market St., from 20 to 40 ft., $75,000, J. Weaver, City Bldg., engr.

O., Cleveland—Cuyahoga Co. opens bids in fall paving Bway. Rd. through Maple Heights and Bedford, $194,300; Wooster Pike, Broadview and I. C. H. 91 Solon Rds., $168,200. F. R. Lander, Court House, engr.

Indiana—State Hy. Comn., Indianapolis, plans 40 mi. highway, 18 ft., involving concrete road from Seymour to New Albany. $2,000,000. C. Gray, state highway engr.

Michigan—State Hy. Dept., Lansing, soon takes bids grading and surfacing 2 mi. Federal Aid Project 45, Sect. B 1, Ingham Co., 20 ft. asphalt, concrete or bituminous concrete. F. F. Rogers, comr.

Mich., Birmingham—Had plans prepared paving with one course concrete 4,480 sq. yd. Midland Ave., for Quarton Lake Estates. $25,000. C. W. Hubbell, 2348 Penobscot Bldg., Detroit, engr.

Mich., Detroit — Having plans prepared 17,500 sq.yd. concrete pavement along Gratiot Ave. $50,000. J. W. Reid, city engr.

Mich., Detroit—Making plans paving with 3 in. sheet asphalt on 6 in. concrete 9,200 sq.yd. Wilshire Ave. $46,050; 3½ in. sheet asphalt on 8 in. concrete, 5,000 sq.yd. Crossley Ave. $29,960, 21,000 sq.yd. Monica Ave. $126,590. J. W. Reid, city engr.

Mich., Highland Park—Had plans prepared paving 9 alleys, 49,328 sq.yd. one course concrete. $150,000. L. C. Whitsit, City Hall, engr.

Ill., Waukegan—Lake Co. plans concrete paving 4 mi. Green Bay Rd. $100,000. L. E. Russell, co. engr.

Minn., Detroit—Comrs. Becker Co. plan to issue $250,000 bonds for trunk highway improvements. State Hy. Dept., 1246 University Ave., St. Paul, engrs.

Minn., Duluth—Having plans prepared grading and surfacing with gravel on crushed rock, 3 mi. Rogers Blvd., 40 ft. $45,000. J. Wilson, city engr.

Kan., Gaylord—Preparing plans grading and paving 4 bocks Main St., 28 ft. $44,000.

Kan., Wichita—Plans grading, curbing, guttering and paving with concrete on 7 in. base, 19 blocks, incl. Wichita, Johnson, Franklin, Ellis, Maple, St. Clair, Coolidge, Parker, Gilbert, Lewis and 10th Sts., and 2 alleys, 15-36 ft., $100,000; brick block paving, etc., 8½ blocks Dayton St. and alley south of English St., 16-32 ft., $70,000; asphaltic concrete paving 5 blocks, Yale, Washington, 10th and Exposition Sts., 26 ft., $40,000; sheet asphalt paving 3 blocks, 26 ft., $24,000. P. L. Brockway, City Bldg., engr.

N. D., Mandan—Making plans paving 32 blocks, and 1 mi. Mandan-Bismarck Highway, various types material. $100,000. W. J. Seitz, city clk.

Wyoming — State Hy. Dept., Cheyenne, plans grading and surfacing 11 mi. Lincoln Highway, Federal Aid Project 156, Albany Co., 24 ft., 89,000 cu.yd. earth and 150 cu.yd. rock excav., $85,000; grading, surfacing and building structures on 7.4 mi. Cover Cut-Kirby Rd., Yellowstone Highway, Federal Aid Project 141, Hot Springs Co., 24 ft., 65,000 cu.yd. earth and 2,100 cu.yd. rock excav. $70,000. Z. E. Sevison, state highway engr.

Tex., Bonham—Fannin Co. making plans grading and concrete surfacing 5.9 mi. Paris-Bonham Rd., 18 ft. $196,000. P. B. Price, Honey Grove, co. engr.

Tex., Brady—McCulloch Co. making plans grading and limestone shale surfacing 5 mi. State Highway 9, 16 ft. $50,000. E. A. Burrows, co. engr.

Tex., Denton—Denton Co. making plans grading and gravel surfacing 13 mi. State Highway 39, 16 ft. $100,000. H. T. Brewster, co. engr.

Tex., Greenville—Hunt Co. making plans grading, etc., Jacobia-Fannin Rd. $75,000. A. D. Duck, co. engr.

Tex., Hondo—Medina Co. making plans grading and surfacing with 1 in. Uvalde rock asphalt on gravel 1.56 mi. State Highway 3, 18 ft. $38,840. A. Y. Walton, co. engr.

Tex., Kerrville—Kerr Co. making plans grading, bituminous topping on gravel 6.3 mi. State Highway 27. $61,700. W. E. Simpson, 414 Natl. Bank of Commerce Bldg., San Antonio, engr.

Tex., Palo Pinto—Palo Pinto Co. making plans grading and surfacing with macadam base, bituminous topping 3.37 mi. Bankhead Highway, 18 ft. $60,000. G. W. Courter, co. engr.

Tex., Pittsburg—Camp Co. making plans grading and bituminous macadam surfacing 6.2 mi. State Highway 11, 18 ft. $160,000. C. Chappell, co. engr.

Tex., Rio Grande — Starr Co. making plans grading and gravel surfacing 17.6 mi. State Highway 12, 18 ft. $115,000. P. S. Devine, Pharr, co. engr.

Calif., Calistoga—Soon takes bids paving 25 blocks. $75,000. Noted June 7.

Calif., Glendale—Had plans prepared grading and paving approximately 2 mi. Glendale Ave., 1½ in. national wearing surface on 4 in. asphaltic concrete. $180,000; cement curbing, guttering, sidewalks and paving approximately 2 mi. Colorado St., Lincoln Ave. and Verdugo Rd., etc., 5½ in. asphaltic concrete. B. F. Dupuy, city engr.

Calif., Martinez—Contra Costa Co. plans concrete paving 1½ mi. Marsh Creek Rd. R. R. Arnold, co. surv.

Calif., San Mateo—Had plans prepared improving Cypress, Mt. Diablo and Tilton Sts., etc., $545,000 sq.ft. 5 in. concrete paving, 13,500 cu.yd. excav., 33,900 lin.ft. concrete curb, 8,800 lin.ft. 4 and 6 in. vitr. sewer, etc. G. S. Whitehead, city engr.

Calif., San Pablo—Making plans paving 450,000 sq.ft. various streets, warrenite-bitulithic. R. L. Calfee, 221 South 22nd St., Richmond, engr.

Calif., Santa Ana—Had plans prepared grading, curbing and paving 77,000 sq.ft. West Walnut St., 5 in. concrete. W. G. Knox, city engr.

Ont., North Bay—Plans 7,500 sq.yd. asphalt or bitulithic pavement on concrete with 3,200 lin.ft. concrete curb and gutter on portions Fraser and Main Sts. $30,000. W. Mackie, Town Hall, engr.

Ont., Windsor—Plans cement pavement on Lillian St. $30,000. M. E. Brian, city engr. Prices wanted on materials.

BIDS DESIRED

New York—Aug. 6, by C. H. Smith, supt. highways Orange Co., Times Press Bldg., 15 King St., Middletown, bituminous macadamizing 3 mi. road in town of Warwick, also concrete paving 3.75 mi. road in

Streets and Roads (Continued)

towns of Minisink and Greenville; adv. this issue.

N. Y., New York—Aug. 9, by J. Miller, pres. Manhattan Boro, Municipal Bldg., sheet asphalt repaving Edgecombe Ave., West 63rd, East 107th and 109th Sts.; widening and sheet asphalt repaving 56th St.

N. J., Bloomfield—Aug. 6, at office of J. C. Johnson, town clk., paving 2,500 sq. yd. Race St., asphalt penetration Telford, $12,000; 300 sq.ft. new bluestone sidewalk and grading and relaying 5,000 sq.ft. bluestone sidewalk on Watsessing Ave., $5,000; bluestone curbing 1,200 lin.ft. Bay Ave., $2,700; asphalt paving 800 sq.yd. State St., $10,000; sewer in 1,000 lin.ft. East Passaic Ave., $2,500. E. Baechlin, town engr. Noted July 26.

N. J., Highland Park—Aug. 6, by Mayor and Boro Council, Masonic Bldg., Raritan and 4th Aves., grading, curbing and paving portions of Harper Pl., Harper St., Harrison, Walter and South 4th Aves., concrete. R. P. Wilson, 46 Paterson St., New Brunswick, civil engr.; adv. this issue.

N. J., Irvington (branch of Newark)—Aug. 8, by Bd. Town Comrs. curbing, laying sewer connections and paving 4,600 sq.yd. Madison Ave.; grading and paving Mill Rd.; recurbing, laying sewer connections and paving 2,600 sq.yd. Smalley Terrace, all foregoing rein.-con.; widening west side of Washington Ave.; 3,340 lin. ft. 8 in. sanitary sewer in Woolsey St. To exceed $50,000. I. J. Casey, town engr.

N. J., Trenton—Aug.27, by Hamilton Twp. Com., Greenwood School, 14,930 lin.ft. concrete curbing, 68,750 ft. concrete sidewalks and 2,140 ft. gutters. $50,000. W. R. Hart, twp. clk. C. S. Sincerbeaux, Mechanic Bldg., Trenton, engr.

Pa., Altoona—Aug. 3, by City Council, paving 2,224 sq.yd. 24th St., 3rd, 15th, Broad and Furnace Aves., 5th, 20th and 22nd alleys, concrete, brick or bituminous material. H. J. Baum, City Hall, city engr.

Pa., Portage—Aug. 6, by Boro Council, paving 3,867 sq.yd. Main St., vitr. brick on concrete. P. F. Campbell, boro engr.

Maryland—Aug. 7, by State Rds. Comn., Baltimore, concrete paving 1 mi. highway in Harford County, Contr. H-32. J. N. Mackall, chn.; adv. this issue.

Maryland—Aug. 14, by State Rds. Comn., Baltimore, constructing state highways, 3 mi. concrete and 1 mi. macadam, penetration method, in Howard Co., Contrs. Ho-31, Ho-40, Ho-42 and Ho-34. J. N. Mackall, chn.; adv. this issue.

Virginia—Aug. 21, at office State Hy. Dept., 413 North 3rd St., Richmond, grading and surfacing, etc., 1.8 mi. Project S 328, Elizabeth City Co., 9.9 mi. Project F-276, Louisa and Albemarle Counties, 8.7 mi. Project S-263 Dickenson Co.; bridge over Allen Creek, Project S-248 C, Nelson Co., bridge over Piney River, Project S-248 B, Amherst and Nelson Counties, bridges on Project S-196, Craig Co., bridge over South Anna River, Project F-276 B, Louisa Co. H. G. Shirley, comr.; adv. this issue.

W. Va., Cameron—Aug. 6, brick paving 2,000 ft. North Ave., 18 ft. J. S. Fish, clk

W. Va., Parkersburg—Smith & Quynn, 302 Union Trust Bldg., receiving bids 50,000 sq.yd. 2 in. asphaltic concrete, Topeka mix; adv. this issue.

W. Va., Ripley—Aug. 15 by Jackson Co. Court, grading 6 mi. Ripley-Charleston Pike. H. E. Snyder, Parkersburg, div. engr.

Ala., Birmingham — Aug. 15, by City Clerk, paving 9 blocks 3rd Ave., S., and 14th St. S., 5 in. concrete base with 2 or 2½ bitulithic surface; also sidewalks, curbs and gutters on 9 blocks. $86,000. A. J. Hawkins, city engr.

Mississippi—Aug. 7, by State Hy. Dept., Jackson, grading and paving 1½ mi. at West Biloxi Beach, Biloxi. H. T. Dietzer, Jackson, engr.

Miss., Forest — Aug. 13, by Scott Co., grading, gravel surfacing and bridging 6.7 Federal Aid Project 134. H. C. Dietzer, c/o State Hy. Dept., Jackson, engr.

Miss., Grenada—Aug. 11, by Grenada Co., grading, gravel surfacing and bridging 15.831 mi. Federal Aid Project 140, 16 ft. Bids will also be received for furnishing gravel. $153,725. H. C. Dietzer, c/o State Hy. Dept., Jackson, engr.

Miss., Meridian—Aug. 14, by Lauderdale Co., grading, gravel surfacing and bridging 4.678 mi. Federal Aid Project 158, 14 ft. Bids also on 12,795 tons gravel. H. C. Dietzer, c/o State Hy. Dept., Jackson, engr.

La., Abbeville—Aug. 18, by Police Jury Vermillion Parish, graveling approximately 11.5 mi. road in Rd. Dist. 2. R. P. LeBlanc, secy.

Kentucky—Aug. 29, by State Hy. Dept., Frankfort, constructing and surfacing with waterbound macadam 5,409 mi. Hodgenville-Glasgow Rd., State Project 41, Sect. A, Larue Co., 18 ft.; grading 2.646 mi. Hazard-Jackson Rd., State Project 4, Sect. B, Perry Co., 24 and 28 ft., 3.996 mi. Hazard-Whitesburg Rd., State Project 4, Sect. C, Perry Co., 24 and 28 ft. J. S. Boggs, state highway engr. Noted July 12.

O., Alliance—Aug. 10, by W. W. Scott, dir. Pub. Serv., widening and repaving about 1 mi. South Arch St., 40 ft., $112,000; East Main St., brick, $40,000. Noted June 21.

O., Cincinnati—Aug. 10, by Hamilton Co., grading and paving 7,900 sq.yd. Benson St., concrete. $29,070. E. A. Gast, Court House, co. surv.

O., Cleveland—Aug. 4, by Cuyahoga Co., paving Highland Rd., and Sprague Rds. 1 and 3, $154,940. F. R. Lander, Court House, engr.

O., Cleveland—Aug. 8, grading, curbing, guttering and paving Laflin and Ruby Aves., East 111th, East 131st and West 17th Sts., vitr. brick or asphalt. To exceed $25,000. R. Hoffman, City Hall, engr.

O., Dayton—Aug. 6, by G. F. Baker, dir. Pub. Serv., curbing and paving 900 ft. Lefevre Court, 30 ft., rein.-con., sheet asphalt or Kentucky rock asphalt, $15,000; 5 alleys, 7,000 ft. long 16 ft. wide, rein.-con., $20,000. I. E. Houk, city engr.

Indiana — Aug. 10, by C. Gray, state Highway engr., Indianapolis, concrete paving 18,110 sq.yd. Federal Aid Project 61, Vigo Co., 72,087 sq.yd. Federal Aid Rd. 60, Sect. A, Orange Co.; repairing 7.5 mi. Federal Aid Rd., 42, Sect. C, Perry and Crawford Counties, 93,184 cu.yd. earth excav., 30,485 lb. steel reinforcing; 6.399 mi. Federal Aid Rd. 42, Sect. B, Perry Co., 15,391 lb. steel reinforcing, 82,106 cu.yd. excav., 9,590 ft. concrete paved side ditch; 5.048 mi. Federal Aid Rd. 50, Sect. A, Perry Co., 18,348 lb. steel reinforcing, 9,020 ft. concrete paved side ditch, 55,706 cu.yd. excav.

Ind., Linton—Aug. 7, 4,000 sq.yd. brick, bitulithic asphalt, or wooden block, etc. J. A. Boudousquie, city engr.

Ind., Logansport — Aug. 9, by Auditor Cass Co., grading and gravel surfacing 19,420 ft. Berkshire Rd., 24 ft., $29,098; paving 18,462 sq.yd. Fettig Rd., concrete, $40,074. R. A. Hyman, Logansport, engr.

Ind., Peru—Aug. 8, by Auditor Miami Co., grading and gravel surfacing 22,000 ft. Co. Unit Rd. 3, 18 ft., $31,850; concrete paving 29,080 sq.yd. Co. Unit Rd. 4, $82,700; 11,400 sq.yd. Co. Unit Rd. 5, $27,270; 10,476 sq.yd. Co. Rd. 6, $27,700; 28,206 sq.yd. Co. Rd. 7, $71,809. B. Welch, Peru, engr.

Michigan—Aug. 7, by State Hy. Dept., Lansing, fine grading and surfacing Federal Aid Project 108, 93,799 sq.yd. concrete, 7,626 cu.yd. earth excav., 397 stas. fine grading. F. F. Rogers, comr.

Michigan—Aug. 8, by State Hy. Dept., Lansing, fine grading and surfacing Federal Aid Project 491 A, Cass Co., 68,061 sq.yd. concrete, 340.3 stas. fine grading. F. F. Rogers, comr.

Michigan—Aug. 9, by State Hy. Dept., Lansing, grading, etc., Federal Aid Project 95, Sects. D and F, Lenawee Co., 187,310 cu.yd. earth excav. F. F. Rogers, cor.

Michigan—Aug. 9, by State Hy. Dept., Lansing, grading and surfacing 1.956 mi. State Trunk Line Rd. 12-38, Dickinson Co., 23,023 cu.yd. excav., 10,428 sq.yd. concrete and 11,281 sq.yd. bituminous macadam. F. F. Rogers, comr.

Michigan—Aug. 10, by State Hy. Dept., Lansing, grading and surfacing State Trunk Line Rd. 47-8, and 21-10, Sect. A, Shiawassee Co., 6,030 cu.yd. excav., 16,564 sq.yd. asphalt, concrete or bituminous concrete, also State Trunk Line Rd. 26-7, Sect. B, Gogebic Co., 6,000 sq.yd. excav., 80,860 sq.yd. gravel. F. F. Rogers, state comr.

Michigan—Aug. 10, by State Hy. Dept., Lansing, grading, etc., Federal Aid Project 67, Sect. E, Washtenaw Co., 80,468 cu.yd. earth excav. F. F. Rogers, comr.

Illinois—Aug. 8 by Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, paving 85.1 mi. in White, Edwards, Lawrence, Knox, Ford, Fulton, Peoria, Richland, Clinton, Christian, Livingston and McHenry Counties, 18 ft.; also 1,157,028 cu.yd. excav. and 5,176 cu.yd. Class A concrete. C. H. Older, ch. engr.

Wis., Milwaukee—Aug. 6, by Dept. Pub. Wks., paving 1,647 cu.yd. Green Bay Ave., vibrolithic concrete on present concrete; 15,780 sq.yd. concrete paving in 13 alleys. $80,000. J. Schwada, city engr.

Minn., St. Paul—Aug. 6, by H. W. Austin, city purch. agt., paving Colbourne St. from West 7th St. to Jefferson Ave., and Front St. from Dale St. to Lexington Ave., asphaltic concrete and vertical fibre brick. $60,000. G. M. Shepard, city engr.

Kan., Iola—Aug. 27, by Clerk Allen Co., subgrading and surfacing 12.906 mi. Humbolt-Elmore Rd., 16 ft., bituminous macadam. $200,000. A. R. Stroup, engr.

Kan., Wichita—See "Sewers."

N. D., Valley City—Aug. 6, paving 21,000 sq.yd. in Dists. 1 and 2, concrete, sheet asphalt or warrenite bitulithic concrete base. $60,000. Dakota Eng. & Constr. Co., Valley City, engrs.

Mo., Richmond Heights (St. Louis P.O.)—Aug. 8, by G. H. Skillman, city clk., 7409 Lavelle Ave., grading, curbing, guttering and asphaltic concrete paving 17,600 sq.yd. Bellevue Ave. $65,000. Pitzman & Co. of Surveyors & Engineers, 615 Chestnut St., St. Louis, engrs. Noted June 14.

Mo., St. Louis—Aug. 28, by Bd. Pub. Serv., 208 City Hall, resurfacing 1,470 sq. yd. Compton St.., asphalt, $3,000; 7,45[illegible] sq.yd. Whittier St., bitulithic, $19,750; grading, granite curbing and paving 4,245 sq.yd. Linton, De Soto and Christy Sts., $25,528; grading and paving 5,035 sq.yd. Ohio St., bitulithic, $30,600. W. W. Horner, city engr. Noted July 12.

Wyoming—Aug. 7, by State Hy. Comn., Cheyenne, grading, surfacing and building 2 timber bridges, one 20 ft. span and other with three 19 ft. spans, on 7.1 mi. Cowley-Deaver Rd., Federal Aid Project 145, Cowley Co., 24 ft., $59,000; grading, surfacing and building one 20 ft. concrete span on 3.3 mi. Laramie-East Rd., Lincoln Highway, Federal Aid Project 153, Albany Co., 24 ft., $68,000. Z. E. Sevison, state highway engr.

Tex., Decatur—Aug. 7, by S. M. Ward, judge Wise Co., grading and gravel surfacing 10.3 mi. County Highway, 640 cu.yd. concrete, 98,700 cu.yd. earth, 1,675 cu.yd. solid and 2,040 cu.yd. loose rock excav., 54,200 lb. reinforcing and 32,600 lb. structural steel. $80,000. H. R. Smith, co. engr.

Tex., Ft. Worth—Aug. 7, by City Com., 13,275 sq.yd. paving 9,400 ft. curbing and guttering and 4,400 cu.yd. excav. on Lee Ave., Cherry and East Magnolia Sts., 3 in. vertical fibre brick, 2 in. Warrenite bitulithic, 2 or 1½ in. Uvalde rock asphalt or 2 in. amiesite. $50,000. D. L. Lewis, city engr.

Okla., Sayre—Aug. 10, by T. J. Means, clk., grading and paving Bway., Walnut and 2nd Sts., 13,100 sq.yd. concrete, 6,600 lin.ft. curb, 4,000 cu.yd. earth and 100 cu.yd. rock excav., etc. $62,500. V. V. Long & Co., 1300 Colcord St., Oklahoma City, engrs.

Calif., Martinez—Aug. 8, by Contra Costa Co., grading and graveling 1 mi. road in Supervisor Dist. 5. R. R. Arnold, co. surv.

Calif., San Mateo—Taking bids grading concrete curbing, laying cement sidewalks and 323,000 sq.ft. 5 in. concrete paving etc., on 1st, 2nd, 3rd and 4th Aves., etc. G. S. Whitehead, city engr. Noted July 19.

Que., Montreal—Aug. 8, asphalt pavements, 995 ft. Lasalle St., 30 ft., 790 ft. Lalonde St., 28 ft., 1,370 ft. Bordeaux St., 30 ft., 1,208 ft. Lajeunesse St., 32 ft., 6,326 ft. Gouin Blvd., 32 ft.; concrete sidewalks, 12,490 ft. Berri St., 5 ft., 3,000 ft. St. Gerard St., 5 ft. 750 ft. east side Benoni Sr., and 760 ft. west side Benoni St., 5 ft. E. Gauthier, asst. city clk.

BIDS RECEIVED

New York—F. S. Greene, comr. Highways, Albany, July 20, constructing 1.72 mi. Repair Contr. 3052, Highway 794, Suffolk Co., from R. W. S. Corp., 30 Church St., New York City, $76,169, engrs. est. $83,097; 3.78 mi. Repair Contr. 3054 and 1383, Highway 5155, Albany Co., from Malloy Constr. Co., Schenectady, $236,291, $258,362; 3.38 mi. Highway 1577A, Jefferson Co., from F. Lux, Johnstown, $122,845, $133,797; 0.52 mi. Highway 1672, Herkimer Co., from Municipal Constr. Co., U. C. N. Bank Bldg., Utica, $36,823, $37,237; 1.65 mi. Repair Contr. 1379, Highway 108, Montgomery Co., from St. Lawrence Constr. Co., Albany, $74,790, $78,563; 2.75 mi. Highway 8124, Oneida Co., from A. Cosentino, West Winfield, $118,001, $128,736; 6.16 mi. Repair Contr. 3055, Highways 5558, 5521 and 564, Oneida Co., from Lane Constr. Corp., 37 Colony St., Meriden, Conn., $236,586, $260,791; 5.25 mi. Highway 8153, Sullivan Co., from Ferber-Coil Co., Hackensack, N. J., $289,255, $296,561; 2.65 mi. Repair Contr. 1370, Monroe Co., from F. W. and J. J. Crouch, Rochester, $96,785, $107,537; 0.89 mi. Highway 1622, Wyoming Co., from E. C. Jones, Great Valley, $28,171, $29,784; 2.29 mi. Highway 1606, Allegany Co., from H. W. Patterson, Hornell, $54,403, $67,804; 2.24 mi. Repair Contr. 1388, Highways 5204 and 907, Steuben Co., from W. L. Collins, Hornell, $97,203, $106,519; 2.45 mi. Repair Contr. 3051, Highway 914, Erie Co., from W. C. Pickard, Tonawanda, $81,336, $82,986. Noted July 12.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading etc., Queens Blvd. from Gosman Ave. to Union Turnpike, etc., from A. A. Johnson Corp., Queens Blvd., $463,029. Noted July 19.

New Jersey—State Hy. Dept., Trenton, July 23, grading and plate girder bridge encased in concrete, etc., on Route 2, Sect.

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4, in Burlington, Burlington Co., from L. J. Selling, Broad St., Red Bank, 86.4% engrs. est. ($173,575); macadamizing roadway between Sta. 53 plus 25 and Sta. 62 plus 50, also 130 ft. steel encased bridge, on Route 20, Sect. 2, in Palisade Park, Bergen Co., from R. J. Mansfield, 53 Park Pl., New York City, $118,330. Noted July 5.

New Jersey—Pohatcong Twp. Com., at Schoolhouse, Springtown, grading, etc. Rhgelsville-Warren Glen Rd., Warren Co., from O. S. Hoch, Allentown, Pa., $57,873. Noted July 5.

Pa., Ebensburg—Comrs. Cambria Co., 2 mi. Frankstown Rd., Croyle Twp., from Owen & Plummer, Otto Bldg., Johnstown, brick on concrete $137,588, Penn Constr. Co., Connellsville, rein.-con. $112,072, telford base, $113,842. Noted June 21.

Pa., New Castle—Repaving East Washington St., from Burns Bros., 525 South Mill St., $33,530.

Maryland—State Rds. Comn., Baltimore, gravel surfacing 17,700 sq.yd. road, Anne Arundel Co., Contr. AA-33, from T. Mullan, 3945 Greenmount Ave., Baltimore, $32,368; 17,500 sq.yd. in Charles Co. Contr. Ch.27, from J. A. Wilmer, La Plata, $30,211; gravel surfacing 9,300 sq.yd. and gravel resurfacing 9,700 sq.yd., St. Marys Co., Contr. SM-26, from St. Marys Constr. Co., Mechanicsville, $10,983; concrete surfacing 9,200 sq.yd. in Worcester Co., Contr. Wo-31, from J. R. Phillips, Berlin, $27,390; 4,200 sq.yd. in Alleghany Co., Contr. A-27, from Tri-State Eng. Co., Liberty Trust Bldg., Cumberland, $16,557. Noted July 12.

West Virginia—State Rd. Comn., Charleston, opened bids July 24, grading and waterbound macadam paving 5.8 mi. Project 3013, Oldfields-Hampshire Co. line Rd., Hardy Co., 18 ft., 3,833 cu.yd. excav., 9,813 cu.yd. broken stone base course, 51,878 sq.yd. waterbound macadam surface course, etc., from Chandler & Armstrong, Moorefield, $112,579. Noted June 28.

Delaware—State Hy. Dept., Dover, improving 2.2 mi. road, Contr. C N 12, from A. H. McDowell, Marshallton, $93,700; 4.518 mi. Constr. CK-14, from E. Riley Mixner Co., Goshen, N. J., $156,431; 1.56 mi. Contr. CS-23, from Webster Constr. Co., East New Market, Md., $42,770. Noted July 5.

Kentucky — State Rd. Dept., Frankfort, improving roads from E. E. Price Co., Lexington, grading and reconstructing 6.1 mi. Lancaster-Richmond Rd., State Project 25, Sect. F-1, $47,404; from J. H. Hostetter, Lexington, reconstructing 5.4 mi. Lexington-Nicholasville Rd., State Project 23, Sect. A-1, Pessamine Co., 10,950 cu.yd. crushed stone, etc., $34,044; cleaning surface and applying bituminous material and spreading covering material on 92.022 mi., from Southern Oil and Tar Co., Clay and Fulton Sts., Louisville, Boyle Co. $1,915, Madison Co. $7,861, Hardin and Jefferson Counties $3,269; R. B. Tyler Co., 114 South 4th St., Louisville, Larue and Hart Counties $6,052, Hart Co. $4,054, Scott Co., Sects. F and A-1, $5,863 and $1,973 respectively; Greenup Co. $1,223 and Fayette Co. $8,716; Eaton Oil Wks., Sterrett St. and Louisville & Nashville R.R., Cincinnati, O., Todd Co. $3,195, Nicholas Co. $1,893 and Harrison Co. $6,571; Breslin & Dunett, Louisville, Whitley Co. $2,772 and Shelby Co. $4,955. Noted July 5.

Kentucky — State Hy. Dept., Frankfort, grading and waterbound macadam surfacing 4.284 mi. Albany-Monticello Rd., State Project 27, Sect. A, Clinton Co., from Huff & Smith, Albany, using corrugated metal pipe, $51,466; river gravel surfacing 3.39 mi. La Grange-New Castle Rd., State Project 19, Sect. A, Oldham Co., from Moynanham & Turner, Lexington, using concrete pipe, $69,635, 12.14 mi. New Castle-Carrollton Rd., State Project 46-A, Sect. A, Henry, Trimble and Carroll Counties, from Ellis & Smeathers, Owensboro, using concrete pipe, $271,124. Noted July 5.

Michigan—State Hy. Dept., Lansing, improving roads, **(S. T. L. Rd. 27-4, Sect A, St. Clair means State Trunk Line Rd. 27-4, Sect. A, St. Clair Co., F. A. P. 99,** Kalamazoo means Federal Aid Project 99, Kalamazoo Co.), fine grading and surfacing 2.528 mi. **S. T. L. Rd. 27-4, Sect. A, St. Clair,** from Taylor Constr. Co., Birmingham, $47,-210. **0.717 mi. S. T. L. Rd. 59-1, Sect. A,** Utica, from Meredith & McVaugh, 220 Horton Ave., Detroit, **$26,003, 1.451 mi. S T. L. Rds. 21-10 and 47-1, Owasso,** from Hudson & Coons, Owasso, **$48,579, 7.569 mi. F. A. P. 99, Kalamazoo,** from The Webber Co., Ionia, $139,675, **4.43 mi. F. A. P. 116, Kent,** from New Era Road Bldg. Co., New Era, $112,958, **7.252 mi. F. A. P. 98, Kent,** from Ford Constr. Co., Michigan City, Ind., $174,-714. **1.6 mi. S. T. L. Rd. 37-4, Grand Rapids,** from Vanderveen Constr. Co., 165 Lyons St. N. E., Grand Rapids, **$46,310, 1.651 mi. S. T. L. Rd. 13-15, Newaygo,** from Hersey Gravel Co., Hersey, **$26,918,** state to furnish cement on above projects; **0.984 mi. S. T. L. Rd. 21-22, Lyons,** from Banhagel Constr. Co., Ionia, $20,795, plus cement $7,500; **5.523 mi. S. T. L. Rd. 46-21, Sanilac,** from G. W. Case, Kinde, $70,788. Noted July 5.

Michigan — State Hy. Dept., Lansing, improving roads **S. T. L. Rd. 47-10, Sect. B Saginaw means State Trunk Line Rd. 47-10, Sect. B, Saginaw Co.,** grading and

ROAD WORK—ARIZONA

Following are lowest three bids opened by U. S. Bureau Pub. Rds. for section of Prescott-White Spar Highway, Prescott Natl. Forest, Yavapai Co., (A) Lee Moor Constr. Co, El Paso, Tex.; (B) H. Galbraith, Jerome; (C) Cashion-Caldwell Co., Phoenix. The unit bids were as follows:

	A	B	C
Clearing and grubbing condition "A" (lump sum)	$5,500 00	$6,300 00	$10,480 00
446,170 cu.yd. excavation (unclassified) condition "A"	.77	.85	.94½
18,091 mi. finishing	100 00	500 00	500 00
1,485 cu.yd. concrete class "A"	19 50	24 00	26 95
1,630 cu.yd. concrete class "D"	17 00	20 00	21 45
194,000 lb. reinforcing steel	.06½	.07	.08½
598 lin.ft. c.m.p. 18-in. diameter	2 07	2 50	2 08
6,322 lin.ft. c.m.p. 24-in. diameter	3 00	3 50	2 94
3,364 lin.ft. c.m.p. 30-in. diameter	3 70	4 50	3 53
2,842 lin.ft. c.m.p. 36-in. diameter	4 43	6 00	4 13
910 cu.yd. hand placed embankment	1 00	3 00	1 50
95,500 lin.ft. protection ditch	.01	.10	.20
198 lin.ft. handrail-concrete	2 00	6 00	5 50
171 lin.ft. concrete handrail for Granite Cr. Bridge	2 50	6 00	7 75
Clearing and grubbing condition "B" (lump sum)	5,000 00	3,608 50	9,170 00
446,170 cu.yd. excavation (unclassified) condition "B"	.73	.80	.89
Extended totals condition "A"	$467,582	$546,716	$598,953
Extended totals, condition "B"	$449,235	$521,716	$573,103

GRADE SEPARATION—DETROIT, MICH.

Following are lowest three bids opened C. B. Brown, Ch. Engr., Grand Trunk Ry. System, Montreal, Que., for grade separation on Dequindre St. from Orleans to Fort Sts., (A) W. E. Lennane, 2631 Woodward Ave., (awarded contract); (B) H. E. Culbertson, 872 West Milwaukee Ave.; (C) G. R. Cook Co., 1260 Penobscot Bldg. The unit bids were as follows:

	A	B	C
Common Excavation			
8,580 cu.yd. (a) disposed of within the limits of the work	$2 20	$1 75	$2 50
17,120 cu.yd. (b) disposed of beyond the limits of the work	2 50	2 00	3 00
Sub-surface Drains			
1,945 lin.ft. (a) 8-in. vitrified drain tile	.95	.60	1 40
260 lin.ft. (b) 8-in. cast iron pipe with concrete saddle	2 42	2 50	2 75
17,150 sq.ft. sodding slopes	.083	.05	.065
1,000 lin.ft. 36-in. trunk sewer	12 85	11 00	13 75
5 manholes on right of way	296 90	75 00	125 00
8 catch basins on right of way	160 40	50 00	90 00
Removing existing bridges (lump sum)	1,500 00	1,200 00	6,000 00
2,400 cu.yd. removing old masonry	4 50	5 00	4 00
Foundation excavation			
900 cu.yd. (a) disposed of within the limits of the work	2 70	2 00	3 00
935 cu.yd. (b) disposed of beyond the limits of the work	3 78	2 50	3 50
22,645 lin.ft. foundation piles	.65	.75	.70
Concrete			
175 cu.yd. (a) 1:1½:3 mixture (lower 4 in. of bridge decks)	17 00	19 00	20 00
1,660 cu.yd. (b) 1:2:4 mixture (reinforced work)	15 80	20 00	18 00
1,410 cu.yd. (c) 1:2½:5 mixture (footings)	11 00	15 00	12 00
3,440 cu.yd. (d) 1:2½:5 mixture (neat work)	15 45	16 00	15 50
92,400 lb. steel reinforcement	.045	.08	.05
5,135 lb. sheet lead (for water tight joints)	.145	.08	.12
30,000 sq.ft. rubbed finish for concrete	.055	.125	.03
3,000 sq.ft. concrete cribbing (face measurement)	3.00	2.00	3.00
Waterproofing			
21,000 sq.ft. (a) backs of walls and abutments (surface measurement)	.0525	.07	.085
16,300 sq.ft. (b) bridge decks (surface measurement)	.1525	.16	.20
16,300 sq.ft. concrete protective coating (surface measurement)	.11	.10	.10
Walls and Abutment Drains			
2,035 lin.ft. (a) 6-in. vitrified tile	.70	.60	.75
90 lin.ft. (b) 6-in. cast iron pipe	1.59	1.00	2.00
Structural steel			
40.6 ton (a) fabricated steel	109.00	100.00	105.00
237.1 ton (b) I-beams not fabricated	77.00	80.00	85.00
888 inserts for blast protective plates	.15	.14	.20
Temporary pile trestle, Jefferson Ave.			
1,600 lin.ft. (a) piles	.65	.90	1.30
11 M.Ft.B.M. (b) timber	225.00	90.00	250.00
Steel sheet piling			
40 ton (a) material	70.00	75.00	120.00
40 ton (b) driving, pulling, etc.	65.00	50.00	60.00
Timber Sheet Piling			
3,000 lin.ft. (a) material, first driving, etc.	1.35	1.00	1.05
500 lin.ft. (b) redriving	.45	.60	.75
Temporary sidewalks			
3,000 sq.ft. (a) using new material	.15	.18	.15
3,000 sq.ft. (b) using second hand material (alternate price)	.14	.14	.10
500 lin.ft. temporary fences or hand railing	.50	1.00	2.00
Street Paving			
6,345 sq.yd. (a) sheet asphalt on 8-in. concrete base	4 60	4 95	4 55
6,345 sq.yd. (Alt.) sheet asphalt on 6-in. concrete base	4 00	4 50	4 35
1,640 sq.yd. (b) brick on 8-in. concrete base	5 40	6 00	6 85
1,640 sq.yd. (Alt.) brick on 6-in. concrete base	5 15	5 70	6 55
1,400 sq.yd. (c) creosote wood blocks on 8-in. concrete base	6 40	6 20	7 15
1,400 sq.yd. (Alt.) creosote wood blocks on 6-in. concrete base	6 10	5 85	6 85
150 sq.yd. (d) granite blocks on 8-in. concrete base	7 20	9 05	8 50
150 sq.yd. (Alt.) granite blocks on 6-in. concrete base	6 90	8 75	8 15
Stone Curbing			
1,700 lin.ft. (a) resetting old curb (straight)	.90	1 00	.75
90 lin.ft. (b) resetting old curb (circle)	1 25	1 30	1 00
1,645 lin.ft. (c) new medina curb (straight)	1 60	1 75	1 90
90 lin.ft. (d) new medina curb (circle)	2 65	2 70	2 50
400 lin.ft. (e) concrete curb for bridges (including nosing)	1 15	1 30	1 20
28,500 sq.ft. sidewalks	.19	.25	.25
1 New sewer manholes complete (city standard)	75 00	75 00	85 00
4 sq.ft. catch basins complete (city standard)	65 00	50.00	60.00
Railing for Top of Street Walls			
90 (a) concrete posts	8 00	2 25	4 00
800 lin.ft. (b) wrought iron railing	4 62	3 30	7 50
393 lin.ft. concrete bridge railing	10 40	10 00	9 25
1,320 lin.ft. right of way fencing	2 00	2 35	2 50
200 cu.yd. cinder fill (in place)	1 70	1 75	1 90
Extended totals	$341,535	$344,603	$377,685

Streets and Roads (Continued)

surfacing **0.833 mi. S. T. L. Rd. 47-10 Sect. B, Saginaw**, 8,598 sq.yd. concrete from Taylor Constr. Co., Birmingham, $18,546 plus state cement, $7,000; 1.251 mi. **S. T. L. Rd. 53-6, Lapeer**, 9,646 cu.yd. excav., (a) 21,276 sq.yd. asphalt (b) 21,276 sq.yd. concrete, from Willite Road Constr. Co., 711 Union Trust Bldg., Detroit (a) $81,054, C. H. Frame & Son, Bad Axe, (b) $55,267; **4.896 mi. S. T. L. Rd. 10-30, Iosco**, 9,338 cu.yd. excav., 46,292 sq.yd. gravel, from Bennett & Crane, St. Charles, $57,566; 1.121 mi. **S. T. L. Rd. 11-16, Emmet**, 3,250 cu.yd. excav., 11,841 sq.yd. concrete, from E. Cosene, Levering, $22,251 plus state cement $8,000.

Mich., Detroit—Paving with 3 in. sheet asphalt (natural lake or oil) on 6 in. concrete (1) 2,659 sq.yd. Berkley Rd. (2) 2,600 sq.yd. Cambridge Rd. (3) 950 sq.yd. Detloff Court (4) 540 sq.yd. Lyle St. (5) 3,200 sq.yd. Petoskey Rd. (6) 340 sq.yd. Posen St. (7) 3,500 sq.yd. Roslyn Rd. (8) 5,400 sq.yd. Ralston Ave. (9) 5,100 sq.yd. Shrewsbury Rd. (10) 6,300 sq.yd. Stratford Rd.; 3½ in. sheet asphalt on 8 in. concrete (11) 3,800 sq.yd. Ohio Ave. (12) 6,400 sq.yd. Rademacher Ave., from W. C. Hartway Co., Detroit, (1) $13,254 (2) $11,731 (5) $14,491 (7) $15,269 (8) $26,044 (9) $22,193 (10) $27,939; from Detroit Asphalt Paving Co., 20 McGraw Bldg., (3) $5,867 (4) $3,092 (6) $2,023 (11) $24,464 (12) $38,678.

Minn., St. Paul—Paving with asphaltic concrete (a) oil (b) lake, 30 blocks Earl St. between Hastings Ave. and Ivy St., from Fielding & Shepley, 216 University Ave., (a) $160,654 (b) $167,407; White Constr. Co., 17 Dearborn St., Chicago, (b) $167,407; 12 blocks Phalen Parkway between Lake Dr. Junction and Ivy St., from White Constr. Co., 17 North Dearborn St., Chicago (b) $70,500, Fielding & Shepley, (a) **$68,366.** Noted July 19.

Tex., Center — Shelby Co., grading and gravel surfacing 3.57 mi. State Highway 35, 103.09 cu.yd. concrete, 35,480 cu.yd. roadway and 8,966 cu.yd. borrow earth excav., from Brown & Root, Georgetown, $26,525; 9,302 cu.yd. gravel to be furnished by county. $17,500. Engrs. est. $47,185.

Colorado—State Hy. Dept., Denver, concrete paving 2.537 mi. Federal Aid Project 246 A, east of Pueblo, Pueblo Co., from R. A. White, 521 Chamber of Commerce, Denver, $78,431; grading 4.58 mi. State Project 786, Echo Lake-Mt. Evans Rd., Clear Creek Co., from E. Honnen, Colorado Springs, $57,682.

Calif., El Cerrito—From Hutchinson Co., Hutchinson Bldg., Oakland, improving Potrero Ave., 14,234 ft. sidewalk $0.18, 2,982 ft. concrete curb $0.70, 7,470 ft. concrete gutter $0.25, 30,551 ft. 8 in. macadam pavement $0.15, etc. Noted May 17

Calif., Napa—Napa Co. July 23, grading 7.34 mi. Monticello-Devils Gate Rd., from A. J. and J. L. Fairbanks, 625 Market St., San Francisco, $64,083. Noted July 19.

Calif., Redwood City—Grading, concrete curbing and guttering and oil macadamizing 154,443 sq.ft. various streets in Redwood Highland Tract, from McHugh & Doyle, 3533 16th St., San Francisco, $35,-492; 305,400 sq.ft. various streets in Oak Knoll Manor, from A. Teichert & Son, Ochsner Bldg., Sacramento, $91,495. Noted July 5.

Calif., San Deigo—San Diego Co. July 23, grading, paving, etc. (1) 158,432 sq.ft. highway from Nutmeg to Lime Sts., in Escondido, (2) 276,313 sq.ft. road from Buena to Vista, (3) 289,163 sq.ft. road from Escondido to Bernardo, (a) 5 in. concrete (b) 5 in. asphaltic concrete (c) willite (d) warrenite, from H. E. Cox, Pasadena, (1a) $46,604; California Constr. Co., Union Bldg., (1b) $41,765 (1d) $44,140 (2a) $86,-150 (2b) $81,175 (2d) $85,320 (3b) $63,-960 (3d) $68,295; H. G. Feraud, Baker-Detwiler Bldg, Los Angeles, (1c) $37,828 (2c) $81,993 (3c) $69,004; Wells-Bresler Co, Santa Ana, (3a) $71,650.

Calif., Santa Ana—Curbing, laying sidewalks and paving 560,000 sq.ft. Lahabra Rd. Dist. Impvt. 22, 1½ in. warrenite on 3½ in. asphaltic concrete, from G. R. Curtis, 2440 East 26th St., Los Angeles, $205,000.

CONTRACTS AWARDED

Massachusetts—State Hy. Comn., Boston, bituminous concrete paving 7,500 ft. in Rehoboth, 18 ft., to Perini & Sons, Inc., Ashland, $83,569; 0.5 mi. in Ayer, to P. J. Keating, Fitchburg, $28,836; 2,500 ft. in Dracut, to A. Pallatto, Dracut, $25,981.

N. Y., White Plains — Bronx Parkway Comn., 72 West Pondfield Rd., Bronxville, paving Bronx River Parkway Dr. between Woodland Pl. and Main St., here, to Hastings Pavement Co., 25 Broad St., New York City, $81,688. Noted July 12.

N. J., Nutley—G. C. Bergen, purch. agt. Essex Co. (Newark), grading and paving Franklin Ave., here, 3 in. sheet asphalt on 6 in. concrete, to Franklin Contg. Co., 20 Washington Pk., Newark, $106,455; draining above street, to P. Lordi, 147 Bloomfield Ave., $22,392. Noted July 26.

N. J., South Amboy—Middlesex Co. (New Brunswick) concrete paving 1 mi. Ridgway, Scott and Stevens Aves., to United Constr. & Supply Co., South Amboy, $86,995.

Pa., Central City—Paving with vitr. brick on concrete, and building sanitary and storm sewers, manholes and inlets in Sunshine and Central Aves., to F. Zipf & Son, 236 Pine St., Johnstown, $62,968. Noted July 5.

Pa., Ebensburg — Cambria Co., paving 4,650 ft., Kneppers Mill Rd., Croyle Twp., to E. A. James, Johnstown Trust Bldg., Johnstown, brick $57,142, concrete $50,663, telford base $50,663. Material to be selected later. Noted June 21.

West Virginia—State Rd. Comn., Charleston, grading and bituminous macadam paving 1.9 mi. Projects 3261 and 50, Clay Court House-Two Mile Rd., incl. additional width to be built by town of Clay together with sewers, Clay Co., 8,400 cu.yd. excav., 9,360 lin.ft. concrete curb and gutter, 5,650 cu.yd. broken stone base course, 25,350 sq. yd. bituminous macadam and 63,375 gal. bituminous material for penetration macadam, to A. Keathley, Prof. Bldg., Charleston, $116,591, (State pays for 18 ft. width); grading and bituminous macadam paving 2 mi. Projects 3151-C and 48, Madison-Danville Rd., Boone Co., 4,850 cu.yd. excav., 3,225 cu.yd. broken stone base course, 14,-500 sq.yd. bituminous macadam, 36,250 gal. bituminous material for penetration macadam, etc., to Abbott Bros., 216 Dickinson St., Charleston, $55,935; grading 3.5 mi. Project 3237—Lewis Dist.—Leon Rd., Mason Co., 35,000 cu.yd. excav., etc., to Skene & Co., Point Pleasant, $45,300; grading and concrete paving 1.2 mi. Project 3252-A, St. Marys-Ellenboro Rd., Pleasants Co., 1,700 cu.yd. excav., 2,330 cu.yd. plain cement concrete, etc., to Cisler & Morse, Marietta, O., $57,589; 1.2 mi. Project 3287, Huntington-Hodges Rd., Cabell Co., 15,000 cu.yd. excav., 2,600 cu.yd. one course plain cement concrete, etc., to G. L. Pence, 1454 4th Ave., Huntington, $62,677; brick paving 3 mi. Project 3253, River Rd., Hancock Co., 18,231 cu.yd. excav., 12,240 lin.ft. 12 x 18 in. and 4,350 lin.ft. 6 x 22 in. concrete curb, 5,507 cu.yd. bank slag base course, 24,784 sq.yd. vitr. brick pavement, 12,240 lin.ft. stone shoulder, 12,240 lin.ft. stone curb, etc., and 1 mi. Project 3089, River Rd., Hancock Co., 11,490 lin.ft. concrete curb, 10,213 sq. yd. vitr. brick, 11,490 lin.ft. stone shoulder, etc., to Kane Bros., Youngstown, O., $137,-962 and $51,353 respectively. Noted June 28.

W. Va., Fairmont—Marion Co., to Tri-State Constr. Co., Youngstown, O., paving with bituminous macadam on Telford, 8,342 lin.ft. Montana Rd., and 17,846 lin.ft. Winfield Rd. in Winfield Dist., $41,602 and $78,-308 respectively. Noted June 21.

W. Va., Huntington — Paving portions Highlawn Court, North Cedar, Leeward and 25th Sts., to G. Hinkle, Huntington, $27,495.

N. C., Henderson—Paving, etc., various streets, to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh. $200,000. Noted Apr. 12.

S. C., Edgefield—Edgefield Co. constructing 9 mi. Federal Aid Project 184, Edgefield-Johnston Highway, sand clay, to B. A. Havird & Co., Newberry, $31,981.

Fla., Sebring — Highlands Co., grading and shaping roadbed on Bassenger Rd., 85,000 cu.yd. earth excav., to H.-P. & W. Constr. Co., Okeechobee, $0.33 per cu.yd.

Fla., Stark—Bradford Co., clearing, grading and paving with clay 41.3 mi. Rds. 1, 4, 8, 9, 12 and 13, to Adams-Evans Co., Atlantic Natl. Bank Bldg., Jacksonville, $59,286.

Alabama—State Hy. Dept., Montgomery, grading and gravel surfacing 10.746 mi. Federal Aid Project 125, Perry Co., and 22.79 mi. Federal Aid Project 131, Walker Co., to Stanley and Singer Constr. Co., Lafayette, $157,710 and $515,983 respectively; 16.284 mi. Federal Aid Project 123, Blount Co., to W. C. Hill, Birmingham, $127,264; 2.352 mi. Guntersville-Gadsen Rd., Marshall Co., 24,840 sq.yd. 2½ in. bituminous macadam on 8 in. chert, to Etowah County Court of Comrs., Gadsden, $62,767.

Miss., Port Gibson—Claiborne Co. improving 7.828 mi. Federal Aid Project 153 A, to Clarke & Junkins, Vicksburg, $99,951.

Tenn., Coalmont—Grundy Co. paving 5.3 mi. highway, 2 course water bound macadam, to Pitts Bros. & Co., Mt. Pleasant, $25,000.

Tenn., Elizabethton—Carter Co. paving 14 mi. various roads, 16 ft., bituminous macadam, to C. Moore, Columbia, $300,000.

Tenn., Nashville—Paving, etc., to D. Turner Constr. Co., Nashville, Jefferson St. from 12th to 18th Sts. $25,658; to Rodes-Eller Constr. Co., Chamber of Commerce Bldg., Main St. from 1st to 11th Sts. $52,-293, 17th St. from Division to Belcourt Sts. $36,949, Belcourt St. from 18th to 21st Sts. $7,111, 2nd Ave. from Chestnut to Hillsboro Alley $13,139; to G. B. Howard, foot of Shelby Ave., Gartland Ave. from 11th to 14th Sts. $7,170, Forrest Ave. from 11th to Main Sts. $1,603. Noted June 21.

O., Cleveland—Paving, curbing and guttering East 93rd St., vitr. brick, Bentley Bros., 1836 Euclid Ave., $24,2[illegible] Bulkley Rd., vitr. brick, to W. E. McHugh, Pavers Exch., $3,683; West 103rd St. and Revere Ave., vitr. brick, to Baldwin Bros., 450 Euclid Ave., $7,081 and $29,3[illegible] respectively; asphalt repaving 9,530 sq.yd. West 9th St., to Cleveland Trinidad Paving Co., The Arcade, $40,557. Noted June 26

O., Columbus—W. H. Duffy, dir. Pub. Serv., grading, laying necessary water services and sewer connections and paving 1,706 ft. Piedmont Rd., 60 ft., and 1,497 ft. Midgard Rd., 40 ft., both asphalt, to R. F. Patterson, 1214 Neil Ave., $5,741 and $16,792 respectively; 448 ft. alley north of 10th Ave., 25 ft., 332 ft. alley north of Clark St., 21.25 ft., and 548 ft. alley west of Taylor Ave., 20 ft., concrete, to R. J. Dienst, 480 South 5th St., $3,515, $2,188 and $3,624 respectively; 320 ft. alley west of Forth St., 16 ft., concrete, to Columbus Contg. Co., 1471 West Broad St., $2,006; 350 ft. alley west of Waldeck Ave., 26 ft., concrete, to Yale Constr. Co., 146 Yale Ave., $2,183. Noted July 19.

O., Dayton—G. F. Baker, dir. Pub. Serv., paving 1,425 sq.yd. Mt. Vernon Ave., and 2,250 sq.yd. Red Haw Rd., Kentucky rock asphalt, to C. C. Adams, 224 South Morton Ave., $5,044 and $7,965 respectively; 2,300 sq.yd. Dow St., concrete, to Finke Eng. Co., 15 South St. Clair St., $13,090; 5,830 sq.yd. Fairview Ave., brick, to E. Smith, 702 Commercial Bldg., $28,856; 11,550 sq.yd. Richmond Ave., asphalt, to Republic Asphalt Paving Co., 801 Schwind Bldg., $50,636. Grafton Ave., brick on concrete, to L. A. Marshall, 302 Ludlow Bldg., $19,390; Negley Pl., rein.-con., to W. J. Kernan, 425 South Cincinnati St., $4,740. Noted June 28 and July 5.

O., Lyndhurst (Cleveland Heights P.O.) **—Grading and laying** concrete sidewalks on 107,500 sq.ft. Irene Ave. and Gordon Rd., to F. B. Stein, Euclid, $28,254.

O., New Philadelphia—Paving 3,830 ft. Boulevard, sheet asphalt on 7 in. concrete to L. Springer & Co., New Philadelphia, $69,508. Engrs. est. $71,000. Noted July 19.

Michigan—State Hy. Dept., Lansing, grading and surfacing, to New Era Road Building Co., New Era, State Trunk Line Rd. 54-7, Newaygo Co., 22,883 cu.yd. earth $0.60, 4,466 sq.yd. rein.-con. $1.60, 32,916 sq.yd. gravel $0.70, etc., total $49,214 plus cement furnished by state; to Wexford Co. Road Com., Cadillac, State Trunk Line Rd. 55-4, Sect. A, Cadillac Co., 13,295 sq.yd. concrete, 5,016 cu.yd. earth excav., $19,758 plus cement $8,723. Noted July 26.

Michigan — State Hy. Dept., Lansing, grading and surfacing, etc., **(S. T. L. Rd. 27-17, Sect. B, St. Clair, means State Trunk Line Rd. 27-17, Sect. B, St. Clair Co.)**, to J. H. Baker, Port Huron, **S. T. L. Rd. 27-17, Sect. B, St. Clair,** 6,941 cu.yd. earth excav. $0.55, 3,522 lb. steel reinforcement $[illegible]06, 38,215 sq.yd. 8 in. concrete pavement $1.56, etc., total $76,553, cement furnished by state; to Willite Road Constr. Co., 711 Union Trust Bldg., Detroit, **S. T. L. Rds. 52-2 and 53-7 A, Romeo**, 14,819 sq.yd. asphalt, 5,852 cu.yd. earth excav., $39,689, cement furnished by state; to Macomb Co. Road Com., Mt. Clemens, **Federal Aid Project 121, Macomb Co.**, 53,676 sq.yd. concrete, 18,204 cu.yd. earth excav., $140,000; to J. A. McKay & Son, 403 Melbourne Av., Detroit, **S. T. L. Rd. 10-14, Macomb**, 10,588 sq.yd. concrete, 3,869 cu.yd. earth excav., 10,588 sq.yd. concrete, $22,183, cement furnished by state; to W. B. Chalmers Co., 501 G. R. Savings Bank Bldg., Grand Rapids, **S. T. L. Rds. 11-48 and 13-43, Retoskey**, 7,688 cu.yd. earth excav. $0.80, 20,-510 sq.yd. bituminous concrete on 6 and 7 in. base, $2.20 and $2.35, etc., total $53,161, cement furnished by state; to Cadwell & Sons, Boyne City, **Federal Aid Project 102, Sects. A and B, Antrim and Charlevoix Counties**, 106,445 cu.yd. earth excav. $0.35, 95,183 sq.yd. one course gravel $0.33, 505.8 cu.yd. concrete $14, etc., total $83,361. Noted June 28 and July 5.

Mich., Detroit—To Detroit Asphalt Paving Co., 20 McGraw Bldg., paving with 3 in. sheet asphalt (natural lake or oil asphalt) on 6 in. concrete, 1,200 sq.yd. E. St. $6,764, 3,000 sq.yd. Maywood Ave. $17,201, 1,010 sq.yd. Rankin Ave. $5,695, 9,700 sq.yd. Van Court Ave. $5,151; with 3½ in. sheet asphalt (natural lake or oil) on 8 in. concrete, 3,500 sq.yd. Byron Ave. $22,219, 1,400 sq.yd. Edison Ave. $9,579, 5,200 sq.yd. Elmhurst Ave. $35,097, 950 sq.yd. Gilbert Ave. $5,815, 3,800 sq.yd. Tuxedo Ave. $25,-

Streets and Roads (Continued)

699; to Cleveland Trinidad Paving Co., 402 Hammond Bldg., 8,100 sq.yd. Cordland Ave. $48,790, 5,100 sq.yd. Monterey Ave. $34,360; to Cooke Asphalt Paving Co., 1260 Penobscot Bldg., 3,500 sq.yd. Cedarhurst Ave. $21,370. Noted July 12.

Mich., Grosse Pointe Farms (Gross Pointe P. O.)—Grading and paving Kerby Ave., 19,248 sq.yd. 9 in. concrete, 8,340 cu. yd. earth excav., 14,326 lin.ft. concrete curbing, to R. R. Moran, Grosse Pointe Farms, $80,000.

Mich., River Rouge—Paving 12,978 sq.yd. Walnut, Elizabeth, LeBlanc, Fairmont and Anchor Sts., rein.-con., to R. J. Powelson, 6415 Iroquois Ave., Detroit, $50,000.

Ill., Urbana—Champaign Co., to R. G. Flaugher Constr. Co., 1105 Race St., constructing 6.345 mi. Sect. 33-15D, Routes 4 and 4-A, $99,161; to Verhey Constr. Co., Lincoln Bldg., Champaign, 7.84 mi. Sect. 34-15D, Routes 4 and 15, $124,633, 8.335 mi. Sect. 35-15 D, Route 1, $139,954, and 6.802 mi. Sect. 36-15 D, Route 17, $127,770. Noted July 26.

Wis., Kenosha—Paving 9300 sq.yd. Park Ave., sheet asphalt, to White Constr. Co., 68 Wisconsin St., Milwaukee, $33,175. Noted July 5.

Wis., Milwaukee — Grading and paving, etc., to F. Blodgett, 204 Grand Ave., Adams and Quincy Ave., 6,642 sq.yd. concrete $25,229, improving various alleys $14,160; to Dean Constr. Co., 382 East North Ave., Atkinson Ave. and Prairie St. 16,289 sq.ft. cement walks $11,081, 17th St. 1,872 sq.yd. vibrolithic concrete $9,729; to F. Hildebrand, 1040 23rd Ave., Cleveland Ave. 1,540 sq.ft. cement walks $685, improving various alleys $18,775; to Schwern Bros., 50 Lee St., Cramer St. and 17th Ave., 7,160 sq.ft. walks $2,498, improving various alleys $3,596; to Kroening Constr. Co., 39th Ave. and Mitchell St., 1st Ave., 4,909 sq.yd. concrete, $19,740; to R. H. Gumz, 831 13th Ave., 14th Ave. 3,546 sq.ft. cement walks, etc., $1,388; to Badger Constr. Co., 97 Wisconsin St., Hadley St. 828 sq.yd. sheet asphalt, etc., $9,244, 228 sq.yd. asphaltic concrete, etc., $1,728; to J. Weitzer, 97 Wisconsin St., 6th St. 2,690 lin.ft. concrete curb and gutter, 16,140 sq.ft. cement walks $9,538; to S. W. Tallmadge, 445 Milwaukee St., improving various alleys $7,625.

Ia., Atlantic—Concrete paving 25 blocks, to F. O. Aking, Atlantic, $2.44.

Ia., Iowa City—For 70,000 sq.yd. sheet asphalt resurfacing and 9,000 yd. asphalt repaving, to McCarthy Impvt. Co., Kahl Bldg., Davenport, $84,000.

Ia., Sloan—For 30,000 sq.yd. concrete paving to M. L. Flinn Constr. Co., 218 Grain Exch. Bldg., Sioux City, $2.14. Noted Jan. 4.

Minn., Duluth — Paving Railroad and Commerce Sts., 30,781 sq.yd. concrete, etc., to D. H. Clough & Co., 405 Palladio Bldg., $30,077. Noted July 19.

Minn., East Grand Forks — Rein.-con. paving (1) 43,150 sq.yd., 9,300 cu.yd. excav., 900 sq.yd. 6 in. concrete paving for alley approaches, curb, etc. (2) 10,409 sq.yd. paving, 2,106 cu.yd. excav., 430 sq.yd. 6 in. concrete for alley approaches, etc., to Johnson, Drake & Piper, Inc., 809 1st Natl.-Soo Line Bldg., Minneapolis, (1) $132,025 (2) $32,294. Noted June 23 and July 12.

Minn., St. Paul—City will pave 8 blocks Front St. between Dale and Rice Sts., vertical fibre brick and asphaltic concrete, by day labor. $40,000. Former bids rejected. H. W. Austin, city purch. agt.

Minn., St. Paul—Paving with asphaltic concrete 8 blocks Pleasant Ave. between Garfield and Osceola Aves., to Thornton Bros. Co., 306 Central Bank Bldg., $50,787. Noted July 19.

Minn., St. Paul—Ramsey Co., grading and paving North St. Paul Rd. from White Bear Rd. to east county line. Project 23-54, 16,110 cu.yd. excav., 16,588 cu.yd. overhaul, 38,240 sq.yd. one course 7½ in. concrete, etc., to McCree & Co., Merchants Natl. Bank Bldg., $98,933. Noted July 12.

S. D., Mitchell—Paving about 52,000 sq. yd. various streets, concrete, to Hanlon & Okes, 338 Lumber Exch. Bldg., Minneapolis, $2.15 per sq.yd. Noted July 12.

Missouri—State Hy. Dept., Jefferson City, constructing roads **(94-5-St. Charles means Route 94, Sect. 5, St. Charles Co.)** 2.358 mi. **94-5-St. Charles,** to J. P. Sparks, Kirkwood, $18,678; 2.472 mi. **State Project Route 63A, Ralls Co.,** and **22-18-Pike,** to F. F. O'Dell, Center, $27,066 and$25,158 respectively; 5 mi. **8-69-Marion,** to J. C. Lyle, 609 Grand Ave., Kansas City, $30,497; 2.443 mi. **25-16-Perry,** to Kiefner & Geile, Perryville, $27,133; 4.98 mi. **14-75-Franklin,** to E. Berns & Co., Indianapolis, Ind., $225,853; 1.799 mi. **32-23-Iron,** and 1.186 mi. **32-30-St. Francois,** to M. E. Gillioz, Monett, $23,546 and $13,462; 0.453 mi. **3-36, Lafayette,** to A. J. Gosby, Leeds, $20,155; one 40 ft. and two 25 ft. rein.-con. deck girder spans, over Yellow Creek, on **6-35A-Sullivan,** to Woodsmall & Woodsmall, Marshall, $9,166.

Mo., St. Louis—For 350,000 cu.yd. grading and 12-36 in. sewers, Holly Hills subdivision, and resurfacing approximately 12,000 sq.yd. Washington Terrace, Kentucky rock asphalt, to McKelvey Constr. Co., Title Guaranty Bldg. Engrs. est. $300,000 and $25,000 respectively.

Mo., St. Louis—Bd. Pub. Serv., concrete paving various alleys **(C. B. 847 means City Block 847)** to Eyermann Constr. Co., 1216 South Grand Ave. 720 sq.yd. **C. B. 847** $2,587, 670 sq.yd. **C. B. 1044** $2,227, 1,222 sq.yd. **C. B. 2811** $3,191, 980 sq.yd. **C. B. 2821** $2,358, 1,075 sq.yd. **C. B. 1357** $3,714, 950 sq.yd. **C. B. 2814** $2,435, 1,215 sqyd. **C. B. 2808** $3,167; to Skrainka Constr. Co., Security Bldg., 610 sq.yd. **C. B. 1323** $1,647, 1,335 sq.yd. **C. B. 5568** $3,385, 1,190 sq.yd. **C. B. 21818** $3,540, 2,755 sq.yd. **C. B. 4498** and **4499** $7,473; to W. Hoffner, 715 South Vandeventer St., 1,355 sq.yd. **C. B. 4448W** $3,673, 1,840 sq.yd. **C. B. 4448W** and **4449B** $5,236; to Blackburn-Crean, Syndicate Trust Bldg., 1,755 sq.yd. **C. B. 5164** $4,447, 1,820 sq.yd. **C. B. 5534** $4,779, 1,075 sq.yd. **C. B. 3272W** $3,003, 1,000 sq.yd. **C. B. 4071E** $2,562, 925 sq.yd. **C. B. 49248** $2,670; to J. E. Perkinson, 3237 Carter Ave., 580 sq.yd. **C. B. 2407** $1,828, 4,316 sq.yd. **C. B. 3873** $11,502. Noted July 26.

Tex., Colorado—Mitchell Co. paving 16,129 sq.yd. 2nd and Walnut Sts., warrenite bitulithic on 5 in. concrete, to West Texas Constr. Co., 504 Cotton Exch. Bldg., Ft. Worth, $62,660. Noted July 19.

Tex., Ft. Worth — Paving Stella and Parkdale Sts., Uvalde rock asphalt on concrete, to General Constr. Co., Cotton Exch. Bldg., 6,000 sq.yd. paving $2.80, 5,000 ft. curb and gutter $1.05, 2,400 cu.yd. excav. $0.90, etc., total $25,500.

Tex., Ft. Worth—For 18,300 sq.yd. paving, 8,945 ft. curbing and guttering and 7,060 cu.yd. excavation on Ryan Pl., Bryan and Rosedale Sts. Waits, 5th and 6th Aves., 2 in. Warrenite bitulithic on 5 in. concrete, to West Texas Constr. Co., Cotton Exch. Bldg., $3.18, $1.05 and $0.90 respectively.

Tex., Jasper — Jasper Co. grading and gravel surfacing 1.29 mi. State Highway 7, east of here, and 6.06 mi. State Highway 7 from here to Newton Co. line, to J. Thompson, San Augustine, $28,665 and $92,091 respectively. Noted July 26.

Tex., Sanderson—Terrell Co. grading and gravel surfacing 13.07 mi. State Highway 12, 18 ft., to F. P. Holt, 1102 West 6th St., Austin, $94,156. Noted June 21.

Okla., Blackwell—Grading and paving 3rd St. and Lincoln Ave., to O. T. Tyler, 928 West Blackwell St., 8,600 sq.yd. vertical fibre brick $3.60 per sq.yd., 4,800 lin.ft. curb and gutter $1.15 per ft., 3,500 cu.yd. earth excav. $0.80 per cu.yd., total $42,848. Engrs. est. $46,959. Noted July 19.

Arizona—State Hy. Dept., Phoenix, asphaltic concrete paving 4 mi. Mesa-Superior Highway. Federal Aid Project 65, to Phoenix Tempe Stone Co., Home Builders Bldg., Phoenix, $145,073.

Wash., Yakima—Yakima Co., gravel surfacing 3.5 mi. Permanent Highway 30, and 10.5 mi. Naches Heights Highway, to Campbell Constr. Co., Spokane, $25,805 and $96,000 respectively.

Calif., Fairfield—Paving Texas St. and Union Ave., warrenite bitulithic on asphaltic concrete, to California Constr. Co., 58 2nd St., San Francisco, $29,850. Noted July 12.

Que., Montreal—Asphalt paving to Duranceau & Duranceau, 152 Hamilton St., 1,600 sq.yd. Caramel St. $6,910, 615 ft. Resther St. 22-27 ft., $9,686, 833 ft. Boyer St., 25-30 ft., $13,163, 1,084 ft. Adam St., 37 ft., $17,408, 2,240 ft. Orleans St., 30 ft., $45,953, 2,250 ft. Mentana St., 30 ft. $9,400, 250 ft. Lalonde St., 19 ft., $2,365, 4,125 sq.yd. Adam St., $17,408; to Quinlan Robertson & Janin, Ltd., 52 Duluth Bldg., 18,400 sq. yd. 1st Ave., $89,530, 5,650 sq.yd. Girouard Ave. $38,208; to D. Brault, Ltd., 2855 Rosemount Blvd., 10,445 sq.yd. St. Dominique St. $40,148, 1,930 sq.yd. Mousseau St. $11,945; to Sicily Asphaltum Paving Co., 60 St. Vitteur St., 3,600 sq.yd. De Lanaudiere St. $14,498, 3,535 sq.yd. De La Roche St. $15,528; concrete sidewalks, to Leger & Lamoureux, 294 St. Catherine St., E., 2,670 sq.yd. Orleans St. $11,347, 1,290 sq.yd. St. Zotique St., $5,522; L. Lyon, 49 Brewster St., 3,100 sq.yd. Peloquin St. $13,485; to St. George Gaubreau, Ltd., 127 Stanley St., 2,000 sq.yd. Lasalle St., $8,820.

Que., Verdun—Asphalt paving to Quinlan, Robertson & Janin, Ltd., 52 Duluth Bldg., Montreal, 1.5 mi. Verdun Ave., $80,000; 1.875 ft. Hickson Ave., $25,000; 1,125 ft. Regina Ave., $20,000. All 36 ft. wide. Noted Jan. 18.

Ont., Owen Sound—Paving 15,000 sq.yd. various streets, bituminous concrete to Warren Bituminous Paving Co., 54 University Ave., Toronto, 8,000 ft. concrete curbs to W. L. Malcolm, Stratford. Engrs. est. $75,000.

Industrial Works

PROPOSED WORK

N. H., Marlboro—Ashuelot Gas and Electric Co., Concord, plans power house and 53 x 220 ft. concrete arch dam with 40 in. penstock. $100,000.

Mass., Fitchburg—City having plans prepared by H. Foster, 72 Fox St., 2 story, 50 x 150 ft. garage and machine shop, rein.-con. and brick, plain foundation. To exceed $100,000.

Mass., Norfolk Downs (Boston P. O.)—Boston Gear Wks., 256 Franklin St., Boston, plans 2 story, 75 x 100 ft. addition to factory, concrete, here.

Mass., Pittsfield — Nesbit Bros., 20 4th St., having plans prepared by G. E. Haynes, 184 North St., 2 story, 100 x 120 ft. garage, brick, steel and timber, plain foundation. North and Wahconah Sts. $50,000.

Mass., Somerville—Sherwood Paper Co., 22 Kent St., plans 3 or 4 story plant, Kent St. To exceed $150,000.

R. I., Bristol — Natl. India Rubber Co. had plans prepared by Lockwood-Greene Co., archts. and engrs., 24 Federal St., Boston, 1 story, 60 x 175 ft. plant, rein.-con. and brick, plain foundation. To exceed $150,000.

Conn., Waterbury—General Baking Co., 1052 North Main St., soon lets contract 2 story and basement, 60 x 100 ft. addition to bakery, brick and timber, North Main St. $50,000. Francisco & Jacobus, 511 5th Ave., New York City, archts.

Conn., Meriden—Manning & Bowman Co., Pratt St., plans several factory buildings, brick, plain foundations, Pratt St. $100,000, Engineer and architect not selected.

N. C., Elizabeth City — Plans electric light plant, waterworks and street paving. J. J. Bray, city mgr. $300,000.

N. C., Haw River—Williamson Mills Co., recently incorporated, plans cotton mill. $700,000. W. T. Brooks, Haw River, J. O. Cobb, Durham and W. F. Williamson, Burlington, incorporators.

N. C., Raleigh—E. C. Hillyer, Hillsboro St., plans 4 brick warehouses, Jenkins St. $50,000.

La., Shreveport — Southwestern Gas & Electric Co. takes bids in August, 2 story, 60 x 150 ft. brick and stone warehouse, Travis and Marshall Sts. $400,000. E. E. Neild, Merchants Bldg., engr. and archt.

Tenn., Jackson — Illinois Central R.R., 135 East 11th Pl., Chicago, plans additions to locomotive and car repair shops, here. $200,000. F. L. Thompson, ch. engr.

Tenn., Lebanon—Lebanon Woolen Mills having plans prepared by D. W. Southgate, 150 4th Ave., N., Nashville, addition to plant. $100,000.

O., Cleveland—F. G. Kohn, 640 Guardian Bldg., plans 1 story, brick and steel garage and commercial building, 2027 East 105th St. $50,000. W. S. Ferguson Co., 1900 Euclid Ave., archts.

O., Cleveland — U. S. Awning Supply Co., 8712 Hough Ave., had plans prepared by Christian, Schwarzenberg & Gaeda, 1900 Euclid Ave., 1 story, 42 x 54 ft. and 50 x 118 ft. brick and timber factory additions, 10618 Cedar Ave. $50,000.

O., Columbus—Universal Body Co., 575 Cleveland Ave., having plans prepared 1 story, about 100 x 300 ft., brick and corrugated steel factory. $45,000. Private plans.

O., Massillon—Ohio Pub. Serv. Co. plans sub-station, 30,000 kw., Jarvis Ave. $150,000.

Ind., Whiting — Whiting Fdry. Equipment Co. plans 1 story addition to plant. $40,000. L. G. Hallberg, 116 South Michigan Ave., Chicago, archt.

Mich., Detroit—Hudson Motor Co., Jefferson Ave., had plans prepared by A. Kahn, 1000 Marquette Bldg., 1 story, 65 x 280 ft., steel and brick factory, plain foundation. Connors Ave.

Ill., East St. Louis—Lubrite Refining Co., Arcade Bldg., St. Louis, Mo., plans 1 and 2 story refinery addition, rein.-con. and brick, here. $500,000. Private plans.

Wis., Brownsville—Brownsville Canning Co., c/o P. H. McCarty, plans 1 and 2 story, brick and timber factory, plain foundation. $75,000. Private plans.

Wis., Centuria—Inderrieden Canning Co., 336 River St., Chicago, having plans prepared by J. P. Hoffman, c/o owner's branch plant at Barron, 2 story, brick and mill construction plant, plain foundation, here. $65,000.

Wis., Menominee—Bd. of Normal Regents, Capitol, Madison, plans power plant and switchboard, brick, rein.-con. and steel, plain foundation, at Institute, here. $74,460. W. J. Kettle, Capitol, secy. Engineer and architect not selected.

Industrial Works (Continued)

Wis., Milwaukee—Becker Motor Car Co., 372 4th St., having plans prepared by O. E. Novotny, 1418 Green Bay Ave., 1 story, 50 x 100 ft., concrete garage, plain foundation. $40,000.

Wis., Milwaukee—International Harvester Co., 217 Oregon St., had plans prepared by Owners' Architectural Dep., 606 South Michigan Ave., Chicago, 4 story, 100 x 148 ft., plant and warehouse, brick and concrete, plain foundation, Reed St.

Wis., Milwaukee—Jersey Ice Cream Co., 387 11th Ave., plans 2 story, brick and concrete factory, plain foundation, Mitchell St. $40,000. Engineer and architect not selected.

Wis., Milwaukee — Milwaukee Boiled Ham Co., 901 Holton St., having plans prepared by Leiser & Holst, 105 Wells St., 2 story, 42 x 77 ft., brick and concrete plant, plain foundation, Garfield Ave. $45,000.

Wis., Milwaukee—C. H. Thoringer, archt., 3328 State St., making plans 1 story, 60 x 100 ft. and 50 x 100 ft. rein.-con. factory. Cost to exceed $40,000. Owner's name withheld.

Wis., Portage—E. Weinke having plans prepared by L. A. Phillips, Beaver Bldg., Madison, 2 story, 50 x 70 ft., garage and repair shop, brick, rein.-con. and steel, plain foundation. $40,000.

Wis., Silverlake—Riverview Fdry. plans to rebuild 1 story, brick and steel foundry, plain foundation, recently destroyed by fire. $50,000. R. M. Dixon, genl. mgr. Engineer and architect not selected.

Wis., Stevens Point—Stevens Point Brick Co., 426 Normal Ave., plans to rebuild 1 story, brick and timber plant, plain foundation, recently destroyed by fire. $40,000. F. Spalenpa, 426 Normal Ave., archt.

Minn., Minneapolis — Acme Transfer & Storage Co., 524 South 4th St., having plans prepared 1 story garage, and 4 or 5 story warehouse, rein.-con. and brick, 3rd St. and 10th Ave. N. $125,000. J. Juster, pres. Engineer and architect not announced.

Mo. St. Louis—Smith-Davis Mfg. Co., 20th and Locust Sts., plans 1 and 2 story factory buildings, Kingsland Ave. $300,000-$400,000. Engineer and architect not selected.

Tex., Bronte—F. E. Brown and C. C. Holder had plans prepared for light and power plant. $50,000. C. C. Holder, engr. and part owner.

Tex., Dallas—City plans garage. $40,000,-$50,000. E. A. Kingsley, city engr.

Tex., Dallas—F. H. Perkins and associates, Magnolia Bldg., had plans prepared by F. H. Perkins, Sr., archt. and engr., Magnolia Bldg., 12 story and basement, 207 x 207 ft., concrete and brick warehouse, plain foundation, Young St. near Marilla St. $500,000.

Tex., Houston — Southwestern Graphite Co., Burnett, making plans 2 story, 50 x 200 ft. warehouse and factory, here. $150,000. C. W. Wheeler, mgr. Engineer and architect not announced.

Calif., Emeryville — Standard Underground Cable Co., 1st Natl. Bank Bldg., San Francisco, having plans prepared by A. Prack, c/o Westinghouse Electric & Mfg. Co., Emeryville, 3 rein.-con. buildings, main building 100 x 300 ft., also power house and warehouse, here. $200,000.

Calif., San Francisco—Wobbers, Inc., 774 Market St., having plans prepared by A. Schroepffer, Foxcroft Bldg., 2 story and basement, 45 x 160 ft., rein.-con. printing plant, Stevenson St. near 5th St. To exceed $40,000.

Calif., Woodland—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, had plans prepared rein.-con. warehouse, shops and office building, here. $40,000. Private plans.

Que., Asbestos — Canadian Johns-Manville Co., 450 South James St., Montreal, takes bids early in August, 150 x 1000 ft. plant, here. $200,000. Private plans.

Ont., North Bay—Hydro Electric Power Comn. of Ontario, 190 University Ave., Toronto, plans to rebuild substation and distribution station recently destroyed by fire, concrete, brick and steel. $100,000 to $150,000. F. A. Gaby, ch. engr.

BIDS DESIRED

Wis., Kenosha — Kenosha Evening News, 261 Wisconsin St., taking bids 2 story, 40 x 70 ft., brick and concrete plant, plain foundation. $60,000. C. O. Augustine, 1063 Howland Ave., archt.

Wis., Madison — University Motor Co., 2201 University Ave., taking bids 2 story and basement, 50 x 100 ft. garage and repair shop, brick and rein.-con., plain foundation. $40,000. J. Fishnach, pres. Private plans.

CONTRACTS AWARDED

Mass., Lowell — Lowell Gas Light Co., School St., addition to house water gas plant, coke bin, etc., Rock St., to Bartlett Hayward Co., 101 Tremont St., Boston, $40,000.

Mass., Worcester—Amer. Steel & Wire Co., Grove St., will build 1 story, 60 x 100 ft. annealing house, brick and steel, plain foundation, by day labor. $40,000. Private plans. Noted July 19.

Conn., Hartford — Imperial Dyeing & Cleaning Co., 454 Park St., 2 story, 40 x 70 ft. factory, brick, plain foundation, Park St., to Lawrence & Coe Constr. Co., 372 Trumbull St. Archts. est. $40,000.

Conn., Hartford—Progressive Mfg. Co., 52 Norwood St., Torrington, 2 story, 60 x 100 ft. factory, Norwood St., here, to Torrington Building Co., 182 Church St., Torrington. Archts. est. $60,000.

Conn., Waterbury—Bristol Co., Platts Bridge, 1 additional story, 47 x 100 ft., brick and steel, to Clark Constr. Co., 168 Grand St. Archts. est. $40,000.

Conn., Waterville—Amer. Pin Co., 1 story, 40 x 120 ft. and 25 x 35 ft. factory, brick, plain foundation, to Immick Co., State St., Meriden. Archts. est. $70,000.

Md., Baltimore—Porcelain Enamel & Mfg. Co., 8th St., 2 story, 99 x 300 ft. plant, rein.-con. and brick, Eastern Ave., 23rd and 25th Sts., to P. C. Streett Eng. Co., 406 St. Paul St. Engrs. est. $150,00. Noted May 3.

O., Dayton—Elder & Johnson Co., 4th and Main Sts., 5 story and basement, rein.-con. and steel warehouse and shipping room plain foundation, 4th St., to H. R. Platt Co., 1229 East 3rd St., $75,000.

Wis., Beloit—Lipman Refrigerator Car Co., 1 story, 80 x 260 ft., machine shop, etc., brick, rein.-con. and steel, plain foundation, to A. C. Woods & Co., Palace Theatre Bldg., Rockford, Ill. Archts. est. $100,000.

Wis., Green Bay—C. E. Wernig, 1 story and basement, 57 x 154 ft., brick and concrete bakery, plain foundation, Main St., to H. J. Selmer Co., McCartney Natl. Bank Bldg. Archts. est. $45,000.

Wis., Madison—A. J. Sweet, 639 West Wilson St., 2 story, 50 x 95 ft., cold storage plant, brick, rein.-con. and steel, plain foundation, to W. H. Deason, Washington Bldg. Archts. est. $50,000.

Wis., Milwaukee—C. Stehling, 401 4th St., 1 story, 62 x 150 ft., brick and concrete garage, plain foundation, 3rd St., to P. Hirt, 1717 Vlien St. Archts. est. $40,000.

Wis., Oshkosh—Winnebago Dairy Products Co., 332 Main St., 2 story, 48 x 82 ft. creamery, brick and tile, plain foundation, also 30 x 60 ft. stable, to Fluor Bros. Constr. Co., 48 Otter St. Archts. est. $45,000.

Wis., Racine—Belle City Malleable Iron Co., Kewaunee St., 1 story, 115 x 308 ft., brick and steel foundry, plain foundation, to Nelson & Co., Janes Blk. Archts. est. $80,000. Another unit, 230 x 362 ft., will be erected next year. Noted May 31.

Wis., Racine—Lakeside Malleable Casting Co., 23rd and Clark Sts., 1 story, 42 x 120 ft., brick and steel foundry addition, plain foundation, to Nelson & Co., Janes Blk. Archts. est. $40,000.

Minn., Moorhead — Fairmont Creamery Co., 12th and Dodge Sts., Omaha, Neb., general contract 3 story creamery building, 1 story and basement evaporation building, 1 story engine house, and 1 story boiler house, brick, here, to T. F. Powers & Co., 429 9th St. S., Fargo, N. D. Total cost $135,000.

Mo., St. Louis—Amer. Car Co., 1518 South Vandeventer St., 1 and 2 story, 38 x 80 ft., brick and timber plant addition, plain foundations, Vandeventer St., to Amber & Zimmerman, 1228 Pine St. Archts. est. $40,000.

Mo., St. Louis—Chicago, Rock Island & Pacific Ry., La Salle St. Sta., Chicago, will build 2 story, 50 x 300 ft. freight depot and office building, rein.-con. and brick, plain foundation, Bway., here, by day labor. $50,000. A. B. Hawk, Chicago, archt.

Mo., St. Louis—W. D. Kunkel, 3132 Washington Blvd., 1 story, 50 x 115 ft., rein.-con. and brick garage, plain foundation, to J. J. Clark Constr. Co., Arcade Bldg. Archts. est. $45,000.

Mo., St. Louis—N. O. Nelson Mfg. Co., 20th and Chestnut Sts., 1 story, 62 x 293 ft., rein.-con. and brick factory, Boyle St., to Widmer Eng. Co., Laclede Gas Bldg. Archts. est. $45,000.

Calif., Los Angeles—A. C. Martin, archt., Higgins Bldg., 5 story and basement, rein.-con. warehouse, San Pedro St., to Weymouth-Crowell Co., 2026 West 9th St., for Los Angeles Warehouse Co. $150,000. Noted July 12.

Calif., Los Angeles—Unger & Watson, 4 story, 90 x 275 ft., rein.-con. and brick garage and loft building, Figueroa St., to Milwaukee Building Co., Wright Callender Bldg., to exceed $250,000.

Calif., Oakland—Field & Lee, 3865 East 14th St., 2 story, rein.-con. auto service building, East 14th St., to M. E. Hopper & Son, 1117 Webster St., $75,000.

Calif., San Francisco—L. R. Lurie Co., 315 Montgomery St., rein.-con. auto stage terminal and store building, Jessie and 5th Sts., to Vukicevich & Bagge, 180 Jessie St., $200,000. Pickwich Stages, 683 Market St., lessee.

Ont., Campbellford — See "Miscellaneous."

Ont., Hamilton—Canadian Westinghouse Co., Traders Bank Bldg., Toronto, 3 story and basement, 80 x 200 ft. rein.-con. brick and steel plant, plain foundation, Aberdeen Ave., to W. H. Yates Constr. Co., 17 Main St. E., $200,000.

Ont., Timmins — Hollinger Consolidated Gold Mines Ltd., hydro electric power plant, rein.-con., on Abitiki River at Island Portage, concrete and earth dams, rock and earth excav., and 3½ mi. railway spur, to William Arrol & Sons Ltd., St. Catharines. Total est. cost $4,000,000-$5,000,000.

Buildings

PROPOSED WORK

Mass., Andover—School—Town having plans prepared by Ripley & LeBoutillier, 47 Bromfield St., Boston, 2 story, 124 x 178 ft., brick and steel, plain foundation, Shawsheen Village. $220,000. E. Conroy, chn. building com.

Mass., Boston—Fire Alarm Station—Fire Dept., 60 Bristol St., having plans prepared by O'Connell & Shaw, 134 Newbury St., 2 story, 100 x 125 ft., stone, steel frame, Hemenway St. $200,000. T. M. Glynn, comr.

R. I., Providence—Apartment—S. Pearlman, c/o J. F. O'Malley, archt., 285 Main St., Pawtucket, had plans prepared 3 story and basement, 36 x 145 ft., with two 46 x 56 ft. ells, brick, hollow tile and stucco, Camp and Cypress Sts., here. $150,000.

Conn., Bridgeport.— Store D. M. Read Co., 1120 Main St., plans 6 story, brick, fireproof, Broad and John Sts. $1,000,000. Engineer and architect not selected.

Conn., Bristol — Nurses' Home — Bristol Hospital Corp., c/o N. Jennings, 4 Oakland St., having plans prepared by C. S. Palmer, 114 Whitney Ave., New Haven, 3 story brick and stone, plain foundation. $150,000. Noted May 17.

Conn., Mansfield—Hospital, etc.—Mansfield Training School and Hospital having plans prepared by Cudworth & Thompson, Thayer Bldg., Norwich, nurses home, addition to hospital ward and boys dormitory, all brick, fireproof, $195,000, $140,000 and $105,000 respectively. C. T. LaMoure, supt. Noted July 12.

N. Y., Gowanda — Temple — Masonic Temple Assn., Jamestown St., having plans prepared by Johnson & Ford, Jamestown, 6 story, 65 x 90 ft., brick. $150,000.

N. J., New Brunswick—School—Bd. Educ. soon takes bids 2 story and basement, 25 x 65 ft., brick and limestone, Delevan St between Livingston and Lee Aves. $170,000. A. Merchant, 363 George St., archt.

Pa., Phila.—Hotel—L. H. Cahan, 1324 Walnut St., having plans prepared by H. E. Kennedy, 1324 Market St., 22 story, 100 x 100 ft., Spruce and Broad Sts. $4,000,000.

Pa., Sharon—Clubhouse—Sharon Lodge 292 Moose, South Main Ave., plans 2 story, 90 x 160 ft. brick, South Main Ave. $180,000.

Md., Baltimore — Store — Bernheimer-Leader Stores, Howard and Lexington Sts., plans 8 or 9 story, 122 x 156 ft., concrete and brick, Howard and Lexington Sts. $1,500,000. L. C. Coblenz, pres. Engineer and architect not selected.

N. C., Hickory—High School—City having plans prepared by C. G. Sayre, East Martin St., Raleigh, for high school. $250,000.

N. C., Newton—Court House—Comrs. Catawba Co having plans prepared by W. G. Rogers, archt., Trust Bldg., Charlotte, 3 story and basement, 60 x 140 ft. $175,000. J. D. Elliott, Hickory, chn.

Buildings (Continued)

N. C., Raleigh—College—Baptist Denomination plans Meredith College, at Method, near here. $1,000,000. C. E. Brewer, 128 North Bount St., Pres. Wilson & Berryman, Wilson, archts.

Fla., Miami Beach—Hotel—C. W. Cordeman, c/o J. Pope, archt., Miami Beach, having plans prepared 6 story, rein.-con., steel frame, Ocean Dr. $200,000.

Fla., Tampa—Auditorium—Amer. Legion Auditorium Assn., had plans prepared by F. J. Kennard, Krause Bldg., and F. O. Adams, Grand Theater Bldg., 2 story, rein.-con. and steel, Crescent Pl. (north end). $650,000. Noted Mar. 22.

Miss., Bay St. Louis—Hotel—H. S. Wetson having preliminary plans prepared by W. T. Nolan, Canal-Commercial Bldg., New Orleans, La., 2 story and basement. $150,000.

La., New Orleans—School—Orleans Parish School Bd., City Hall Annex, having plans prepared by E. A. Christy, for Lafayette School, 3 story, 189 x 244 ft., rein.-con., brick and cement, Carrollton St. between Apple and Belfast Sts. $300,000.

Tenn., Memphis—Church—St. Paul Methodist Church had plans prepared by H. T. McGee, Madison Ave. Bldg., 3 story and basement, 800 seating capacity, brick and stone, Euclid Ave. and Rozell St. $150,000.

Tenn., Memphis—Jail—Shelby Co., having plans prepared by Jones & Furbringer, Porter Bldg., brick and stone, Washington Ave. $350,000. Noted July 12.

Ky., Henderson—Temple—Masonic Lodge plans temple, $150,000. Architect not selected.

Ky., Paducah — Terminal — Nashville, Chattanooga & St. Louis Ry. Co., 1000 Bway., Nashville, Tenn., plans 2 story station and office building, 6 tracks, tobacco platforms, etc., here. $250,000. H. McDonald, ch. engr.

O., Cincinnati — Church — Holy Name Monastery, Locust and Woodburn Sts., having plans prepared by Crowe & Schulte, 914 Main St., 2 story, rein.-con. and stone addition, plain foundation. $250,000.

O., Cleveland — Commercial and Temple—Lorain Ave Masonic Temple Co., c/o J. Lyons, 321 Frankfort Ave., plans 4 story, brick, steel and concrete, West 95th St. and Lorain Ave. $300,000. R. F. Medicus, Crandall Ave., Youngstown, archt.

O., Cleveland—Church and Sunday School—Schifflein Christi Evangelical Congregation, 1645 Superior Ave., having plans prepared by Howell & Thomas, 4500 Euclid Ave., 1 and 2 story and basement, brick, steel and stone, on lot 164 x 230 ft., Thornhill Dr. and Arlington Ave. $150,000. J. C. Hansen, pastor.

O., Cleveland—Commercial and Apartment—H. G. Atwater, 13807 St. Clair Ave., having plans prepared by Steffen & Steffen, Williamson Bldg., 3 story and basement, 64 x 110 ft., brick and timber, 13809 St. Clair Ave. $150,000.

O., Cleveland—Commercial and Apartment—J. M. Sands of Sands Mfg. Co., 5407 Sweeney Ave., plans 2 story, brick and steel, St. Clair Ave. and Coit Rd. $150,000. A. F. Janowitz, 811 Prospect Ave., archt.

Mich., Detroit—Hotel—Fairbairn Hotel, 381 West Grand Blvd., having plans prepared 8 story and basement, 120 x 157 ft. rein.-con., brick and steel, plain foundation, East Columbia Ave. $1,250,000. Architect's name withheld.

Mich., Redford — School — Brightmoor School Bd. plans 2 story and basement, 10 room, rein.-con., brick and steel, plain foundation. $150,000.

Ill., Oak Park—Apartment—H. Dalsey, archt. and owner, 2321 West North Ave., plans 3 story, 140 x 150 ft., fireproof, Washington and Kenilworth Sts. $300,000.

Wis., Cedarburg — Church — Immanuel Lutheran Congregation receiving competitive sketches for brick and tile, plain foundation. $150,000. W. H. Behrens, pastor. Engineer and architect not selected.

Wis., Kenosha—School and Church—St. Marks Congregation having preliminary plans prepared by Backes & Pfaller, 216 West Water St., Milwaukee, 2 story and basement, 57 x 137 ft., brick and tile, plain foundation. $150,000.

Wis., Milwaukee — Business—Milwaukee Sales & Investment Co., 425 East Water St., having plans prepared by M. Tullgren & Sons, 425 East Water St., 6 story and basement, brick and concrete, plain foundation, Grand Ave. $400,000.

Wis., Milwaukee—Church—St. Boniface Congregation, c/o H. T. Stemper, pastor, 118 Clarke St., having plans prepared by Riesch & Hess, 128 Wisconsin St., 1 story **120 x 137 ft., brick, stone and concrete,** plain foundation. $250,000.

Wis., Milwaukee—Office—Globe Investment Co., 218 3rd St., having plans prepared by Kirchhoff & Rose, 210 Sycamore St., **6** story, 44 x 100 ft., brick, concrete and steel addition, Grand Ave. $150,000.

Wis., Milwaukee—Business—P. Voland Furniture Co., 3202 North Ave., had plans prepared by H. H Bruns, archt, 845 26th St, 2 story and basement, 82 x 120 ft., brick and concrete, plain foundation. $150,000 Noted July 19.

Wis., Stoughton—High School—Bd. Educ. c/o Clerk, plans 2 story, brick, rein.-con. and steel, plain foundation. $150,000. Engineer and architect not selected.

Ia., Ames—Memorial—Iowa State College, Ames, plans memorial union building, on campus. $1,000,000. Pond & Pond, 64 East Van Buren St., Chicago, archts. Noted Feb. 22.

Minn., Minneapolis—Church—Beth El Congregation and A. M. Heller, Penn Ave. and 14th Ave N., having plans prepared by Liebenberg & Kaplan, 617 McKnight Bldg., 128 x 164 ft., rein.-con., brick and tile, Penn Ave. and 14th Ave. N. $150,000.

Kan., Wichita—Store and Office—Wheeler, Kelly & Hagny, 120 South Market St., plan 7 story, fire-proof, Market St. $500,000. Engineer and architect not selected.

Mo., Joplin—Memorial—Voted $250,000 bonds for memorial, convention hall, and auditorium, 5,000 seating capacity, brick, rein.-con. and stone. Engineer and architect not announced. Noted July 5.

Mo., Richmond Heights (St. Louis P. O.)—Church—Richmond Heights Presbyterian Church, Silverton and Dale Aves., plans 2 story, rein.-con. and brick, plain foundation, Pennsylvania St. $150,000 up. Engineer and architect not announced.

Mo., St. Louis—Office and Store—Southern Realty & Investment Co., Central Natl. Bank Bldg., plans 79 x 121 ft., probably 12 story, rein.-con., brick and steel, concrete pile foundation, 6th St. $1,000,000. Engineer and architect not announced.

Mo., Webster Groves—Seminary—Eden Seminary, 6700 Easton Ave., Wellston, having plans prepared by T. P. Barnett & Co., Arcade Bldg., St. Louis, and takes bids about Sept. 1, 2 story and basement, rein.-con. and brick, plain foundation, Lockwood Blvd., here. $375,000.

Tex., Texarkana—Hotel—Secretary Chamber of Commerce having plans prepared 4 story and basement, concrete and brick. $300,000. Engineer and architect not announced.

Calif., Beverly Hills—Theatre and Store—V. McCoy, c/o W. A. Hudson, archt., Wood-Beekman Bldg., had plans prepared 60 x 160 ft., brick and rein.-con.

Calif., Eureka—High School—Eureka High School Dist. plans group of rein.-con. buildings. J. J. Donovan, 1916 Bway., Oakland, archt.

Calif., Long Beach—Bank—Bank of Italy, 660 South Bway., Los Angeles, having plans prepared by Walker & Eisen, Pacific Finance Bldg., Los Angeles, 12 story, 80 x 125 ft., probably rein.-con., 3rd St. and American Ave., here. $1,000,000.

Calif., Los Angeles—Hotel and Store—McCartney Co., c/o J. H. Dunn, archt., Merchants Natl. Bank Bldg., had plans prepared 5 story (ultimate 12 story) rein.-con., Temple St. and Bway.

Calif., Oakland—Store—J. Havens, et al, c/o J. W. Plachek, archt., 2014 Shuttack Ave., Berkeley, having plans prepared 2 story and basement, 100 x 100 ft., concrete, brick and terra cotta, 11th and Clay Sts., here. $150,000.

Calif., San Jose—College—Notre Dame College plans group of rein.-con. buildings. $600,000. J. J. Donovan, 1916 Bway., Oakland, archt.

Calif., Santa Monica — Store — A. C. Blumenthal, et al, Loew State Bldg., Los Angeles, plans about 12 story, probably rein.-con., on 100 x 150 ft. site. To exceed $500,000.

Calif., Santa Monica—Apartment—Mick and Doyle having plans prepared by Walker & Eisen, 326 Pacific Finance Bldg., Los Angeles, 5 story and basement, 208 x 240 ft., rein.-con., Ocean Ave. $500,000.

Wash, Seattle—Temple—Elks Lodge 92, plans 4 story temple. $400,000. J. E. Rimbold, 220 1st St. N., exalted ruler.

Ont., Toronto—Schools—Bd. Educ., 155 College St., having sketch plans prepared by C. Dyson, 155 College St., commercial high school and new collegiate institute, each 3 story and basement, 20 rooms, rein.-con., brick and steel, plain foundation. $250,000 each.

Ont., Toronto—Y.W.C.A., 21 McGill St., having plans prepared by Molesworth, West & Secord, 43 Victoria St., 3 story and basement, rein.-con., brick and steel, plain foundation, McGill St. $300,000.

BIDS DESIRED

Conn., Hartford—Apartment—J. Frary, 679 Albany Ave., taking bids 4 story, 55 x 140 ft. with 40 x 65 ft. ell, brick and steel, plain foundation, Albany Ave. $200,000. Dunkelberger & Gilman, 721 Main St., archts. Noted July 12.

N. Y., Amsterdam—High School—Aug. 15, by Bd. Educ., 2 story, 129 x 210 ft., brick, steel and concrete. G. L. Lockhart, 1353 University Ave., St. Paul, Minn., archt. Noted May 17.

N. Y., Kew Gardens (Jamaica P. O.)—School—Aug. 8, by W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, P. S. 99, Kew Gardens Rd. from 82nd Rd. to 83rd Ave., here. Noted July 12.

Pa., Harrisburg—Office—Aug. 23, by B. H. Boyd, secy. Dept. Property and Supplies, Capitol Bldg., completion of new South Office Building; adv. this issue.

D. C., Wash.—School—Aug. 8 by Dist. Comrs., 509 Dist. Bldg., 8 room school on Spring and Rock Creek Church Rds.; adv. this issue.

W. Va., Pruntytown (Grafton P. O.)—School—Sept. 28 by State Bd. Control, Charleston, 3 story, 69 x 150 ft., brick, tile, concrete, steel and limestone, here. R. A. Gillis, Fairmont, archt.

Ky., Louisville—Temple—Aug 15 (change of date), by Joseph & Joseph, archts., Francis Bldg., 7 story, 155 room hotel, auditorium seating capacity 5,000, and large proscenium arch stage, 50 x 183 ft., East Bway., for Kosairs Assn. $1,600,000. Noted July 12.

O., Akron—Auditorium—Aug. 28, by Bd. Educ., 3 story in rear of Central High School, Union Ave., 15,000 seating capacity. $175,000.

O., Cincinnati—School—Aug. 13, by Clerk Bd. Educ., Denton Bldg., 3 story, 75 x 109 ft. addition to Avondale Public School, Reading Rd. $150,000. S. Hannaford & Sons, 1024 Dixie Terminal Bldg., archts. Noted June 7.

O., Norwood (Cincinnati P. O.)—Exchange—Aug. 6, by H. Hake, archt., Telephone Bldg., Cincinnati, exchange, here, for Cincinnati Suburban Bell Telephone Co., Telephone Bldg., Cincinnati. Noted March 1.

O., Piqua—Church—Green St. Methodist Episcopal Church taking bids 2 story, brick, steel and concrete. $250,000. J. Fulton, Thompson Ruby Bldg., Uniontown, Pa., archt. Noted May 24.

O., Portsmouth—Hotel—Aug. 10, by C. C. Taylor, archt., Portsmouth, constructing Hurth Hotel, 6 story and basement, 60 x 120 ft., brick and stone, for H. R. Hurth, Portsmouth. $165,000. Noted May 3.

Mich., Detroit—Schools—Aug 8, by Bd. Educ., 2 story and basement, 40 ft. high, 64 x 140 ft., rein.-con., brick and steel addition to Western High School, Scotten and Page Aves., $150,000; also 3 story and part basement, 42 ft. high, 110 x 215 ft. school, with 38 x 97 ft. heating plant, rein.-con., brick and steel, Cameron Ave. $350,000.

Ill., Chicago—Store and Office—J. J. Jensen, archt., 4815 North Lawndale Ave., receiving bids 5 story, 30 x 69 ft. rein.-con., brick and steel, 173-175 North Michigan Ave., for Frolich, McCabe & Chadwick, 551 North Michigan Ave. $200,000.

Wis., Milwaukee—Chapel, etc.—Aug. 6, by E. Brielmaier & Sons, archts., 432 Bway., 1 story and basement, 52 x 116 ft., brick and concrete, plain foundation, State St., for St. Benedict the Moor Mission, 305 9th St. $200,000.

Wis., Union Grove—Employees—Aug. 10, by State Bd. Control, Madison, 1 story, 50 x 115 ft., brick and rein.-con., at State School and Home for Feeble Minded, here. $150,000. Noted June 21.

Ia., Cedar Rapids—Court House and Jail—Aug. 22 by Auditor Linn Co., 3 story and basement, rein.-con., on Municipal Island. $750,000. J. W. Royer, Flat Iron Bldg., Urbana, Ill., archt. Noted Dec. 14.

Kan., Arkansas City—Apartment—Aug. 8, by Roseberry & Cunningham, 116 North Summit St., 3 story and basement, 132 x 132 ft., brick and concrete, plain foundation. $150,000. W. L. McAtee, Johnson Bldg., archt.

Neb., Fairbury—High School—Fiske & McGinnis, archts., 533 Bankers Life Bldg., Lincoln, opens bids about Aug. 6, 2 story

Buildings (Continued)

and basement, 90 x 160 ft., rein.-con. and brick, for Bd. Educ. $200,000. Noted Mar 8.

Mo., St. Louis—Store and Office—Aug. 15, by Wedemeyer & Nelson, archts., Wainwright Bldg., 3 story and basement, 88 x 175 ft., rein.-con. and brick, Grand Blvd., for E. Freund, 2735 Cherokee St. $150,000. Noted June 28.

Tex., Dallas—Church—Nov. 1, by First Methodist Church, c/o M. C. Cameron, 3800 Stratford St., 2 story and basement, 160 x 232 ft., stone, concrete and steel, Ross Ave. $150,000. R. H. Hunt & Co., Great Southern Life Bldg., archts.

Calif., Los Angeles—High School—Aug. 15, by Bd. Educ., building Fairfax High School, 2 story, 320 x 450 ft., rein.-con. and brick, Fairfax Ave. $600,000. J. and D. Parkinson, Title Insurance Bldg., archts. Noted July 26.

Calif., Los Angeles—Store and Loft—W. D. Lee, archt., Sun Drug Bldg., taking bids 6 story, rein.-con., San Pedro and Winston Sts., for Revolving Fund Corp., c/o architect.

Calif., Los Angeles — Store — Allison & Allison, archts., Hibernian Bldg., taking bids 4 story and basement, 100 x 150 ft., rein.-con. and brick, Hollywood Blvd. and Vine St., for E. O. Palmer, c/o architects. $250,000.

Calif., Redondo—High School—Aug. 9, by Trustees Redondo High School Dist., 2 story, 36 x 60 x 269 ft., brick. $150,000. Allison & Allison, 1405 Hibernian Bldg., Los Angeles, archts. Noted March 15.

Calif., Santa Rosa—Store and Lodge—Shea & Shea, archts., Chronicle Bldg., San Francisco, taking bids 3 story, rein.-con. and steel, A St., here, for B.P.O.E., Santa Rosa Lodge. $250,000.

BIDS RECEIVED

O., Columbus — Journalism, etc. — Bd. Trustees Ohio State University, July 25, Journalism building, 2 story and basement, 80 x 117 ft., also 1 story, 105 x 220 ft. addition to chemistry building, both brick and concrete, on campus, from D. W. McGrath & Sons, 255 East Broad St., $67,500 and $141,000 respectively. Noted July 19.

O., Logan—Court House—D. M. Heft, aud. Hocking Co., 3 story and basement, 70 x 117 ft., brick concrete and stone, from E. H. Latham, 60 East Broad St., Columbus. $176,900. Noted June 28.

O., Painesville—Hospital—Lake Co. Hospital Assn., c/o L. G. Spaulding, clk., 3 story and basement, brick, steel and concrete, from J. Grant & Son, 4500 Euclid Ave., Cleveland, $129,312. Noted July 12.

Mich., Detroit—School—Bd. Educ., 1343 Bway. Ave., 2 story and basement, 84 x 278 ft. rein.-con., brick and steel, plain foundation, Wagner Ave., from W. H. Mueller, 1711 Ford Bldg., $287,400. Noted July 19.

Wis., Rice Lake — Church — Bethany Lutheran Congregation, 2 story, 70 x 100 ft., brick and tile, plain foundation, from C. W. Peterson, Milltown. Archts. est. $150,000.

Minn., St. Paul—School—Dept. Educ., City Hall, July 23, general contract 2 story and basement, brick and tile, Palace and James Sts., from P. A. Swenson & Co., 202 Bremer Arcade, $128,000.

Calif., Long Beach — Hospital — City Council, rein.-con., State St., from R. E. Campbell, Bancroft Bldg., San Diego, $233,300. Noted July 12.

CONTRACTS AWARDED

N. H., Goffstown—Chapel and Dining Hall—St. Anselms College, 2 story, 100 x 125 ft., brick and steel, to J. M. Dolan, 237 Bway., Boston. Archts. est. $300,000.

Mass., Newtonville — Church — Methodist Episcopal Church will build 52 x 106 ft., brick, by day labor under supervision of Woodbury & Stuart, archts., 581 Boylston St. $175,000.

Mass., Northampton—Gymnasium—Smith College, 2 story, 80 x 170 ft., brick and steel, plain foundation, to E. F. Miner Building Co., 25 Harvard St., Worcester. $400,000. Noted June 7.

Mass., Northampton—Music Hall—Smith College, 4 story, brick and steel, to E. F. Miner Building Co., 25 Harvard St., Worcester. Archts. est. $300,000. Noted Dec. 28.

Mass., Somerville — (Boston P. O.) — Church and School—Park Ave. Methodist Church will build brick and steel church and school, College Ave., by day labor. $200,000. Woodbury & Stuart, 581 Boylston St., Boston, archts.

R. I., Providence—Gymnasium—City, 4 story, 100 x 150 ft., rein.-con. and brick, Spring St., general contract to E. Turgeon, Weybossett St., $269,884. Noted June 28.

N. Y., New York—Schools—Bd. Educ., 500 Park Ave., P. S. 74, Crotona Ave. and East 189th St., to Rosenthal Eng. Contg. Corp., 228 Jackson St., Brooklyn, $1,196,000; P. S. 79, East 181st St. between Morris and Creston Aves., to J. T. Brady Co., 103 Park Ave., $1,109,100; addition to P. S. 30, East 141st St. and Brook Ave., to Lustig & Weil Co., 103 Park Ave., $190,000. Noted July 19.

N. J., Bloomfield—High School—Bd. Educ. general contract 4 story, 25 x 140 ft., brick and stone addition, plain concrete foundation, Broad St., to Becker Constr. Co., 125 Main St., East Orange, $162,970. Noted June 28.

N. C., Graham—Court House—Comrs. Alamance Co., 3 story and basement, rein.-con., granite, marble and terra cotta, to Northeastern Constr. Co., Commercial Bank Bldg., Charlotte, $179,770. Noted April 4.

N. C., Raleigh—Dormitory—Bd. Directors State College, 3 story, 100 room, steel and concrete, to J. W. Stout & Co, Sanford, $164,000.

Fla., Sarasota—Hotel—A. McAnsh, 208 South LaSalle St., Chicago, rein.-con. hotel, steel frame, Central Ave., here, to W. R. Carman Co., Sarasota, cost plus basis. Archts. est. $350,000. Noted Apr. 26.

Fla., Winter Haven—Hotel—Haven Hotel Co., c/o D. W. Swarts, completing 7 story, rein.-con., to Hargler & Smith, Winter Haven, cost plus basis. About $125,000. Skeleton of building erected. Noted May 3.

Miss., Aberdeen—High School—Bd. Educ., 3 story, brick and stone, general contract to D. D. Thomas & Son, 463 North Dunlap St., Memphis, Tenn. $150,000.

Wis., Fond du Lac—Hotel—Hotel Wisconsin Realty Co., 86 Michigan St., Milwaukee, 8 story, 34 x 77 ft., brick and concrete addition, plain foundation, here, to Immel Constr. Co., 200 North Main St. $160,000.

Wis., Milwaukee—Apartment—H. F. Gray, 138 Juneau Ave., 4 story and basement, 45 x 100 ft., brick and concrete, plain foundation, Grand Ave., to Raulf Co., 428 Grand Ave. $150,000.

Wis., Oshkosh—Hospital—Mercy Hospital, 185 Hazel St., 4 story and basement, 48 x 100 ft., brick and concrete, plain foundation, to Fluor Bros. Constr. Co., 48 Otter St. Archts. est. $150,000.

Ia., Winfield—School—School Bd, general contract 2 story and basement rein.-con., brick and stone, to C. W. Getchell, 2910 High St., Des Moines, $129,920. Noted July 26.

Minn., Chisholm—Municipal—Village, 2 story and basement, 142 x 241 ft., brick and rein.-con., general contract to H. Fawcett, 31 Nesabe Blk., Duluth, $150,865. Noted July 12.

Mo., St. Louis—Theatre, Store and Office—W. Goldman, 6343 Waterman Ave., 6 story, 146 x 148 ft., rein.-con. and brick, concrete pile foundation, Grand Blvd., to P. J. Bradshaw, International Life Bldg. $600,000. Noted March 15.

Tex., Dallas—Hotel—E. D. Gonzales, 3029 Bryan St., 9 story and basement, 90 x 103 ft., concrete, brick and stone, plain foundation, Harwood and Jackson Sts., to H. O. Rourke Constr. Co., Praetorian Bldg. $311,000.

Tex., Houston—Chemistry, etc.—Rice Institute, 3 story and basement, brick, stone and concrete, to T. Telepsen Constr. Co., Prince Theater Bldg., $439,000. Noted June 14.

Tex., San Antonio — Office—Travis-St. Mary's Investment Co., 407 Navarro St, 10 story, 90 x 110 ft., rein.-con., brick and stone, concrete pile foundation, to McKenzie Constr. Co., 605 Bedell Bldg., $231,000. Noted June 21.

Wash., Seattle—Office and Store—Kress Co., 114 5th Ave., New York City, 3 story, steel and concrete, 3rd and Pike Sts., to M. Hoard & Co., Pantages Bldg., $200,000. Noted May 3.

Wash., Seattle—Medical—Medical Assn., 16 story, 100 x 140 ft. class A rein.-con., 5th and Olive Sts., to Great Northern Constr. Co., New York Blk. Archts. est. $1,800,000.

Calif., Long Beach—Apartment—R. C. Robertson, c/o H. E. Burkett, archt., Commercial Bldg., 6 story and basement, rein.-con., West 6th St., to H. E. Ketchum, 1705 East 1st St., $300,000. Noted June 21.

Calif., Los Angeles—Loft—See "Industrial Works."

Calif., Los Angeles—Office and Store—Frick-Martin Co., c/o Curlett & Beelman, archts., Union Bank Bldg., 2 story and basement, 50 x 155 ft., rein.-con. and brick, Spring St. near 7th St., to Edwards, Wildey & Dixon, Black Bldg., $150,000.

Calif., Oakland—Office—Acme Building Co., c/o C. W. McCall, archt., Central Bank Bldg., 7 story and basement, fireproof, 14th and Franklin Sts., to Dinwiddie Constr. Co., Crocker Bldg., San Francisco. $350,000.

Calif., San Francisco—Store—See "Industrial Works."

Ont., Port Hope—College—Trinity College 3 story and basement, rein.-con., brick and steel, plain foundation, general contract to Gladman Constr. Co., 76 Adelaide St., E. Toronto. Archts. est. $350,000.

Ont., Toronto — Restaurant — Bowles Lunch Room, Ltd., 7 King St. E., 3 story and basement, 30 x 100 ft., terra cotta, tile, marble and steel addition, to W. T. Joy, 86 High Park Ave., $175,000.

Federal Government Work

PROPOSED WORK

Ky., Louisville—Rods, Steel, etc.—U. S. Engineer, P. O. Box 72, will purchase 900 reinforcing bars, 2-30 ft. long, reinforcing steel accessories incl. 850 bar chairs for proposed power house at Dam 44, Ohio River.

BIDS DESIRED

Mass., Boston—Dredging—Aug. 30, at office U. S. Engineer, Custom House, dredging in Beverly Harbor; adv. this issue.

N. Y., New York—Dredging—Aug. 9 at office U. S. Engineer, 616 Army Bldg., dredging and rock removal in Area 2, New York and New Jersey Channels; adv. this issue. Noted Mar. 15.

Pa., Pittsburgh—Lock—Aug. 23, at office U. S. Engineer, constructing Lock 7, Monongahela River; adv. this issue.

Md., Baltimore—Riprap Stone—Aug. 15, by Superintendent of Lighthouses, furnishing and placing 2,500 tons riprap stone at Lighthouse Stations, 5th Dist.

D. C., Wash.—Fire Protection System—Aug. 7 by Treas. Dept., installing fire protection equipment in Treasury Annex 2, J. A. Wetmore, acting superv. archt.

D. C., Wash.—Shed, etc.—Aug. 20, by Treas. Dept., Wash., D. C., storage shed and repairs to present shed at central heating, light and power plant, here. J. A. Wetmore, acting superv. archt.

Mich., Harbor Beach—Stone—Aug. 16 at office U. S. Engineer, 337 Federal Bldg., Detroit, furnishing and placing 10,000 tons stone on breakwater, here. E. M. Markham, dist. engr.

Arizona — Road — Aug. 15, by E. S. Wheeler, dist. engr., Bureau of Pub. Rds., Dept. of Agriculture, 242 West Washington St., Phoenix, constructing 16.522 mi. Salt River-Pleasant Valley, Sect. 1, Forest Highway, Tonto National Forest, Gila Co., 18,917 cu.yd. rock and 80,946 cu. yd. earth excav., etc.

T. H., Pearl Harbor—Bins and Trestle—Spec. 4772—Sept. 12, by Bureau Yards & Docks, Navy Dept., Wash., D. C., 12 storage bins and 1 trestle at Naval Operating Base, here. Noted July 19.

Alaska—Bridge—Aug. 8, at office C. E. Dole, gen. purch. agt., Alaskan Eng. Comn., 422 Bell St. Terminal, Seattle, Wash., steel girder spans for Bridge 3707 over Nenana River, here.

BIDS RECEIVED

Ky., Louisville—Lumber—U. S. Engineer, P. O. Box 72, furnishing yellow pine No. 1 common, 1,300 pieces 6 x 8 in. x 20 ft., 250 pieces 4 x 6 in. x 20 ft., 120 pieces 2 x 4 in. x 10 ft., etc., f.o.b. Owensboro, from Marsh & Truman Lumber Co., 332 South Michigan Ave., Chicago, $32.45 per M ft. (delayed delivery); King Sparrow Lumber Co., Hattiesburg, Miss., $32 per M ft. Noted July 19.

Calif., San Diego—Road—Spec. 4844—Bureau Yards & Docks, Navy Dept., Wash., D. C., road at Training Station, Naval Base, here, from Union Constr. Co., foot of 14th St., Oakland, $5,990 (60 days). Noted July 12.

CONTRACTS AWARDED

La., New Orleans—Dredging—U. S. Engineer, 329 Custom House, dredging 5 mi. Calcasieu-Sabine Sect., Intracostal Waterway, 998,000 cu.yd. excav., to H. Reynolds, Maison Blanche Bldg., $128,836. Noted July 26.

Ill., Great Lakes—Sewer Extension—Spec. 4851—Bureau Yards & Docks, Navy Dept., Wash., D .C., sewer outfall extension

Federal Government Work (Continued)

at Great Lakes Naval Training Station, here, to Great Lakes Dredge & Dock Co., 104 South Michigan Ave., Chicago, $28,400 (120 days). Noted July 5 under "Chicago."

Miscellaneous

PROPOSED WORK

Fill—Daytona, Fla.—See "Excavation, Drainage and Irrigation."

Park Improvements—Biloxi, Miss.—City making preliminary plans for park improvements. $80,000.

Extensions to Lines, etc.—Gainsboro, Tenn.—Gainsboro Telephone Co. authorized by Tennessee Pub. Utilities Com. to issue $100,000 bonds, $50,000 of which will be spent on additions, extensions and improvements to lines and service, balance refunding bonds.

Coal Elevator—Paducah, Ky.—West Kentucky Coal Co., Sturgis, plans coal elevator foot of Ohio St., here. $25,000.

Tracks, Platforms, etc.—Paducah, Ky.—See "Buildings."

Elimination of Grade Crossing—Columbus, O.—City, Cleveland, Cincinnati, Chicago & St. Louis R.R., La Salle St. Sta., Chicago, Pennsylvania R.R., Pennsylvania Sta., Pittsburgh, and Hocking Valley R.R. Spahr Bldg., Columbus plan raising railroad tracks at Dennison Ave. crossing, here, street will be depressed and widened to 80 ft. and tracks carried over by steel girders. $1,450,000. City's share of cost 35%, railroads 65%. R. H. Simpson, city engr.

Elimination of Grade Crossing — Red Bank (Cincinnati P. O.), O.—Pennsylvania R.R., Pennsylvania Sta., Pittsburgh, and Hamilton Co., (Cincinnati), plan elimination of grade crossing, here, $150,000. Railroad to pay 65⅔ and county 35% of cost. W. D. Wiggins, ch. engr. of railroad. E. A. Gast, Court House, Cincinnati, engr.

Dike—Detroit, Mich.—Dept. Parks & Blvds., 600 Marquette Bldg., plans stone dike at Belle Isle Park, 25,000 tons one man size stone. $25,000. E. G. Heckel, 600 Marquette Bldg., comr.

Steam Heating Plant—Cambridge, Wis.—Bd. Educ., c/o Clerk, plans to issue $30,000 bonds steam heating plant incl. boilers in high school. Engineer not selected.

Golf Course, etc.—Fox Point (Milwaukee P. O.), Wis.—Michiwaukee Golf Club, 720 Cramer St., plans golf course and club house. A. Severnson, pres. $100,000. Engineer not selected.

Coaling Station—Madison, Wis.—Chicago & Northwestern Ry., c/o B. R. Kulp, div. engr., 201 South Blair St., plans 1 story, 60 x 110 ft., 200 ton mechanical coaling station, brick, rein.-con. and steel, plain foundation. $75,000. Private plans.

Steam Heating Plant—Sheboygan, Wis.—Plans steam heating plants at city almshouse. R. R. John, City Hall, engr.

Power Development—Minnesota—Phoenix Utilities Co., Lyceum Bldg., Duluth, acting for Amer. Power & Light Co., purchased several power plants and appropriated funds for new power dams at Cloquet and near Lake Vermilion, whole work with extension of feed lines to cost $7,000,000. Purchase means that present power production of St. Louis River will be developed from 80,000 to 95,000 hp. W. S. Robertson, c/o Phoenix Utilities Co., engr. in charge.

Heating Mains—Blue Earth, Minn.—Voted $75,000 bonds to extend municipal heating plant mains. J. J. Kehr, clk.

Paving Materials—St. Paul, Minn.—City rejected bids on materials for paving portions Minnehaha, West 6th St., Randolph and 6th Sts. with vertical fibre brick, Pleasant and Cleveland Aves., with asphaltic concrete, Raymond Ave. and 6th St. with creosoted wood blocks and vertical fibre brick. Noted July 19.

Park Improvements—Dallas, Tex.—City Com. making plans and takes bids October or November, park improvements in Tennison, Craddock, Randall and Exline Parks, incl. roadways, walks, playgrounds, landscape architecture, etc. $200,000. E. A. Kingsley, city engr. Myers & Noyes, Central State Bank Bldg., consult. engrs.

Underpass—Dallas, Tex.—City and Dallas Co. making plans under pass on Lemmon Ave. under Cotton Belt R.R. $25,000. E. A. Kingsley, city engr. Nagle, Witt & Rollins, Courthouse, co. engrs.

Harbor Improvements—Oshawa, Ont.—Dominion Government, Ottawa, voted $50,000 for harbor improvements here, hydraulic dredge work. K. M. Cameron, ch. engr.

BIDS DESIRED

Heating and Ventilating Apparatus, etc.—New York, N. Y.—Aug. 10, by W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, heating, ventilating and temperature regulating apparatus in Julia Richman High School, 2nd Ave. from East 67th to East 68th Sts., here.

Fill—Annapolis, Md.—See "Bridges."

Pier—Charleston, S. C.—Aug. 22, by Port Utilities Comn., Room 712, Peoples Bldg., constructing Union Pier. H. M. Gallagher, genl. mgr.; adv. this issue.

Levee—Clarksdale, Miss.—Aug. 14, by Bd. Levee Comrs. Yazoo Mississippi Delta, enlarging 5 mi. Ward Lake Levee containing 10,000 cu.yd. topping, 75,000 cu.yd. banquette enlargement. W. L. Head, ch. engr.

Creosoted Piling, etc.—Mayersville, Miss.—Aug. 6, by 1st and 2nd Dist., Separate Rd. Dist. Highway Comrs., 2,650 lin.ft. creosoted piling, 6,120 ft. creosoted and 50,000 ft. untreated lumber, to be delivered at Blanton Sta., Sharkey Co. Address O. H. Keep, Mayersville.

Gravel—Meridian, Miss.—See "Streets and Roads."

Portland Cement, etc.—St. Paul, Minn.—See "Waterworks."

Golf Links, etc.—Nakoma (Madison P. O.), Wis.—Nakoma Country Club, 1st Central Bldg., taking bids 18 hole golf course, tennis courts, etc. $50,000. F. J. Blum, secy. Private plans. Noted June 21.

Levee—Bridge Junction, Ark.—Aug. 15, by St. Francis Levee Bd., 32,000 cu.yd. excav. in ditch construction work adjacent to levee in Lee Co. H. N. Pharr, ch. engr.

Electrification—Texas—See "Railways."

Levee — Oroville, Calif. — Aug. 8, by Trustees Recl. Dist. 200, Biggs, 5 mi. levee, 114,000 cu.yd. earth work, here. W. W. Green, Biggs, engr.

Underground Conduits—Montreal, Que.—Aug. 6, by Executive Com., City Hall annex, underground conduits, manholes, etc., in St. Laurence Blvd., Craig, Bleury and Lagauchetue Sts. A. Lariviere, c/o Electrical Comn., 83 Craig St. W., ch. engr. Noted Mar. 22.

BIDS RECEIVED

Heating and Ventilating Apparatus, etc.—Arverne (Far Rockaway, P. O.) N. Y.—W. H. Gompert, archt., Flatbush Ave. extention and Concord St., Brooklyn, July 27, heating, ventilating and temperature regulation apparatus, in P. S. 42, Beach 66th and Thursby Sts., here, from Raisler Heating Co., 129 Amsterdam Ave., New York, $85,200. Noted July 19.

Heating and Ventilating Apparatus, etc.—Brooklyn, N. Y.—W. H. Gompert, archt., Flatbush Ave. extension and Concord St., heating, ventilating and temperature regulating apparatus, in P. S. 100, West 3rd St. 317 ft. south of Sheepshead Bay, from Gillis & Geoghegan, Inc., 537 West Bway., New York, $84,780; in P. S. 190, Sheffield Ave. 100 ft. south of Riverdale Ave., from Raisler Heating Co., Inc., 129 Amsterdam Ave., New York, $83,990. Noted July 19.

Heating and Ventilating Apparatus, etc.—New Brighton, N. Y.—W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, July 27, heating, ventilating and temperature regulating apparatus for addition to Curtis High School, Hamilton Ave. and St. Marks Pl., here, from D. J. Rice, 405 Lexington Ave., New York, $39,770. Noted July 19.

Pier Shed—New York, N. Y.—J. H. Delaney, comr. Docks, Pier "A" North River, West 44th St. Pier Shed, North River, Contr. 1810, general contract from Triest Contg. Co., Inc., 128 East 59th St., $813,860. Noted July 19.

Gravel—Grenada, Miss.—See "Streets and Roads."

Paving Materials—St. Paul, Minn.—City, July 23, paving materials for Front St. between Dale and Rice Sts., 6,645 sq.yd. 3 in. vertical fibre brick, from Streator Clay Mfg. Co., 713 Guardian Life Bldg., $1.62 per sq.yd.; 5,340 bbl. portland cement, from Minnesota Lime & Cement Co., Marshall and Albert Sts., and Capitol City Lime & Cement Co., 28 Indiana Ave. E., each bid $2.65 per bbl. f.o.b. cars, $2.80 delivered; 4,000 cu.yd. crushed rock or gravel for concrete base, from J. L. Shiely Co., 305 Dakota Bldg., $2.60 per cu.yd.; 260 tons asphalt from Minnesota Road Equipment Co., 4536 Dupont Ave. S., Minneapolis, $21.30 per ton; 80,000 lb. asphalt filler, from Minnesota Road Equipment Co., 4536 Dupont Ave. S., Minneapolis, $26.60 (in drums) and DuRo Asphalt Products Co., 133 West Washington St., Chicago, $26.13 per ton. Noted July 19.

Culvert—St. Louis, Mo.—Bd. Pub. Serv., 208 City Hall, July 24, 467.5 ft. rein.-con. culvert, 32 ft. inside diameter, to carry Delmar Blvd. over River Des Peres, from Fruin-Colnon Constr. Co., Merchants-Laclede Bldg., $130,636. Noted July 5.

CONTRACTS AWARDED

Loading Platform—Hartford, Conn.—New York, New Haven & Hartford R.R., Union Sta., 18 x 500 ft. loading platform, to H. Wales Lines Co., 134 State St., Meriden. Archts. est $50,000. Noted July 19.

Gas Main—Erie, Pa.—Pennsylvania Gas Co. will construct new 10 in. low pressure gas main, by day labor. $50,000. F. Krum, mgr. Noted July 19.

Subway—Phila., Pa.—W. S. Twining, dir. Dept. City Transit, 1211 Chestnut St., 1,529 lin.ft. 2 track subway in Arch St., Contr. 202, to Keystone State Constr. Co., 210 South 13th St., $1,198,555. Noted July 5.

Sea Wall—Vicksburg, Miss.—For 4,200 lin.ft. sea wall containing 9,500 cu.yd. concrete, 450 tons reinforcing steel, 4,200 ft. interlock sheet piling 10-20 ft. long, to Jefferson Constr. Co., Q & C Bl., New Orleans, La. Engrs. est. $325,000. Noted June 7.

Stadium—Bloomington, Ind.—University of Indiana, 1 story, concrete, to Bedford Steel Constr. Co., Bedford. Archts. est. $225,000. Noted June 7.

Foundation—Milwaukee, Wis.—Kenwood Methodist Episcopal Congregation, c/o J. D. Babcock, chn. building com., 86 West Water St., plain foundation for 2 story, 70 x 150 x 165 ft., brick, concrete and stone church, to J. L. Stanage, 3216 Vliet St. Noted Apr. 26 under "Buildings."

Foundation, etc.—Racine, Wis.—Memorial Hall Com., plain foundation and excavation for 1 and 2 story, 180 x 200 ft., brick and concrete memorial auditorium, to Bondgard & Christensen, Mound Ave. and Mead St., $49,994. Noted July 19.

Steam Heating Plant—Wisconsin Rapids, Wis.—Bd. Educ. steam heating plant in Lincoln High School, to Grand Rapids Plumbing and Heating Co., Wisconsin Rapids. Noted July 5.

Foundation—Minneapolis, Minn.—H. S. Goldie, 929 Plymouth Bldg., agent for company which let contract constructing foundation for 6 story and basement, 120 x 250 ft., rein.-con., brick and tile hotel, West Lake St. and Dean Blvd., to Standard Home Building Co., Andrus Bldg. Bids on superstructure at later date. Total cost $1,300,000. This corrects report in July 12 issue under Buildings.

Transmission Line—Oxford, Kan.—General contract transmission line, to Tri State Electric Co., 1012 South West Bldg., Kansas City, Mo., $9,985; poles, to Bell Lumber Co., 528 Sec Bldg., Minneapolis, Minn. $3,319; transformers, to Western Electric Co., Telephone Bldg., Kansas City, Mo. $2,002, etc.

Tanks—Clayton (Glenrock P. O.), Wyo.—Sinclair Crude Oil Purchasing Co., thirty 80,000 barrel tanks, here, to Chicago Bridge & Iron Wks., 30 Church St., New York City.

Revetment — Sacramento, Calif. — City will build 4 in. concrete revetment on slope of Sacramento River, by day labor. $76,000. A. Givan, city engr. Noted July 26.

Trailers—San Jose, Calif.—Santa Clara Co., trailers, one to Benson & Weaver, 89 South Market St., $1,950; two to S. S. Smith Co., 625 Market St., San Francisco, $1,945 each; two to Pinchetti Bros., 402 South 1st St., $1,969 each; one to Ralston Iron Wks., 20th and Indiana Sts., San Francisco, $1,697. Noted Mar. 22.

Telephone Lines—Ontario—Temiskaming & Northern Ontario Ry., North Bay, will build 40 mi. telegraph and telephone lines from Cochrane to James Bay. $75,000. S. B. Clement, North Bay, ch. engr.

Wharf—Blind River, Ont.—Dept. Pub. Wks., Ottawa, reconstructing timber wharf, pile foundations, to T. P. Charleson, 179 Gilmour St., Ottawa, $25,000. Noted May 10.

Power Development—Campbellford, Ont.—Hydro Electric Power Comn., 190 University Ave., Toronto, general contract for work in connection with power development at Dam 8, Trent Valley Canal, incl. 70,000 cu.yd. rock excav. and rein.-con. power house, to Sinclair Constr. Co., Ltd., Excelsior Life Bldg., Toronto, $250,000. Noted Apr. 23.

Subway—Toronto, Ont.—Dept. Pub. Highways, 110 University Ave., subway, concrete abutments, steel top, 66 ft. wide, carrying double tracks, on Danforth Ave., east of here, to Provincial Contg. Co., 10 Adelaide St. E., about $100,000.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE

E.N.-R.

OFFICIAL PROPOSALS

Bids: August 14.

Approaches to Bridge

Baltimore, Md.

SEALED PROPOSALS for building one section of State Highway, as follows:

ANNE ARUNDEL COUNTY — CONT. AB-10-E: For fill to approaches to the Severn River Bridge at Annapolis, Maryland,

will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 14th day of August, 1923, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form, which, with specifications and plans will be furnished by the Commission upon application and cash payment of $1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred ($500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 30th day of July, 1923.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

Bids: August 21.

State Highway Work

Richmond, Va.

Sealed bids will be received at the office of the State Highway Dept., 413 N. 10th St., Richmond, Va., until 10:30 a.m., August 21st, 1923, for the construction of:

1. PROJECT S-196-Rt. 22. Approaches to Craig Creek. Bridges in Craig Co. 0.56 mi. grading. Approx. 6,506 cu.yds., Exc., 6,220 cu.yds. Borrow.

2. PROJECT S-248B-Rt. 18. Bridge over Piney River near Canody in Amherst and Nelson Co. One 100-ft. steel truss conc. floor Roadway 19 ft. Approx. 66.0 cu.yds. "A" conc. 457 cu.yds. Rubble Masonry, 5,940 Lbs. reinf. steel, 87,200 Lbs. Structural steel, 207 lin.ft. pipe Gd. fence.

3. PROJECT S-248C-Rt. 18. Bridge over Allens Creek near Rose Mill in Nelson County. Two 30-ft. reinforced conc. beam spans. Roadway 24 ft. Approx. 83.3 cu.yds. "A" conc., 175.1 cu.yds. "B" conc., 16.450 Lbs. reinf. steel.

4. PROJECT S-263-Rt. 114. Hasl-Moss in Dickenson Co., 8.7 mi. of grading and drainage. Approx. 30 Ac. clearing, 324,380 cu.yds. Exc., 4,482 lin.ft. Pipe, 117 cu.yds. "A" conc., 31,352 lin.ft. Wd. GD Rail, 2,324 lin.ft. Wd. GD. Rail with steel posts, 6,842 cu.yds. retaining wall.

5. PROJECT F-276-Rt. 39. 6.27 Mi. W. Louisa—1.07 Mi. W. Cobham, Louisa and Albemarle Cos. 9.9 mi. 18 ft. 8 in. Bi. Mac. Approx. 17 Ac. Clearing. 77,113 cu.yds. Exc. 1,726 lin.ft. Pipe, 181.0 cu.yds. "A" conc., 59 cu.yds. "B" conc., 5,397 Lbs. reinf. steel, 2,696 lin.ft. Wd. GD Rail.

6. PROJECT F-276B-Rt. 39. Bridge over South Anna River near Green Springs in Louisa Co. Three 40 reinforced concrete beam spans. Approx. 174.0 cu.yds. "A" conc., 405 cu.yds. "B" conc., 38,235 lbs. Reinforcing steel.

7. PROJECT S-328-Rt. 39. Pheobus-Buckroe. Elizabeth City Co. 1.8 mi. 18 ft.-8-6-8 conc. Approx. 3,750 cu.yds. Exc., 250 cu.yds. Borrow, 454 lin.ft. Pipe, 25 cu.yds. "A" Conc., 28 cu.yds. "B" Conc., 1,380 lbs. reinforcing steel. State will furnish cement.

Proposal guaranty to be as specified Par. 1, page 4 of proposal.

OFFICIAL PROPOSALS

Plans and specifications are on file at the office of the State Highway Dept., and the following Dist. Engrs.: Proc. 276 Rd. and Br. Culpeper, Proj. 263 Bristol, Proj. 328 Suffolk, Proj. 196 Salem, Proj. 248 B & C Lynchburg.

Additional plans for bidders for the above project can be obtained upon application to the State Highway Dept. upon receipt of $5.00, payable to H. G. Shirley, $2.50 of which will be refunded if plans are returned within two weeks after bids are opened. Bridge plans can be obtained from W. F. Hobart, 805½ E. Franklin St., Richmond, Va., at the following prices: Proj. 248—54c.; Proj. 278—54c.; Proj. 248 B & C—54c. If desired sent by Special Delivery add 10c. to cover cost of postage.

Engineers will be at the following places to show prospective bidders over projects as follows:

PROJ. 196—Newcastle, 10:30 a.m., Wed., Aug. 15th; PROJ. 248B & C—Rose Mill, 10:30 a.m., Tues. Aug. 7; PROJ. S-263—9 a.m., CC & O Sta., Fremont, Thurs., Aug. 16; PROJ. 276 Rd. & Br. Cobham, 12:00 noon, Thurs., Aug. 9; PROJ. 328, Pheobus, 11:00 a.m., Tues., Aug. 14.

The State Highway Commission reserves the right to reject any or all bids.

H. G. SHIRLEY, Chairman.

C. S. MULLEN, Acting Commissioner.

Bids: August 20.

Waterworks Improvements

Palmyra, N. Y.

Sealed proposals will be received by the Board of Trustees of the Village of Palmyra, N. Y., until 8 o'clock p.m., on the 20th day of August, 1923, for the construction of improvements to its water works system, consisting in general of a distributing reservoir, a storage reservoir, filter, pump well, pump house and connecting piping.

Plans and specifications may be seen at the office of the Board at Palmyra, N. Y., or at the office of Hopkins and Field, Engineers, 349 Cutler Building, Rochester, N. Y. Plans will be sent by the engineers upon a deposit of ten dollars.

Bids will be received and considered for the entire work as a whole. Also, bids will be received and considered separately:

(a) For construction of the storage reservoir and pipe laying;

(b) For the filter, pump well, and pump house;

(c) For the distributing reservoir.

The Board reserves and has the right to reject any or all bids or to accept those that in its judgment will be for the best interests of the village.

A bond satisfactory to the Board in amount and surety will be required of any one to whom a contract may be awarded.

A certified check, made payable to the order of the Board of Trustees, Palmyra, N. Y., to the amount of $1,000, must be deposited by each bidder and accompany his bid as a guarantee, that, in case a contract is awarded him, he will, within ten days thereafter, execute such contract and furnish his bond.

Bids must be sealed and addressed to the Board of Trustees, Palmyra, N. Y., and marked on the outside of the envelopes, "Proposal for Water Works Improvements."

VILLAGE OF PALMYRA, N. Y.
By LOUIS C. ZIEGLER, President.

RALPH H. MORHOUS,
CLARENCE C. NESBITT,
CHARLES LEBRECHT,
ANDREW Y. EARL,
Trustees.

SANFORD M. YOUNG, Clerk.
Dated, July 27, 1923.

OFFICIAL PROPOSALS

Bids: August 8.

Electric Elevator and Shaft

MIDDLETOWN STATE HOSPITAL
Albany, N. Y.

Sealed proposals for New Electric Elevator for Storehouse; and for New Elevator Shaft for Storehouse, at the Middletown State Homeopathic Hospital, Middletown, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y. until 2 o'clock p.m. (Standard Time), Wednesday, August 8, 1923, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed and shall be accompanied by a deposit consisting of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York, or money, equal to five per cent (5%) of the amount of the proposal. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specifications Nos. 4165 and 4166. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the Middletown State Hospital, Middletown, N. Y.; at the New York Office of the Department of Architecture, 18th Floor, Fuller Building, Broadway & 23rd St.; and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, Sullivan W. Jones, Capitol, Albany, N. Y.

Dated: July 23, 1923.

Bids: Aug. 7.

Paving

Baton Rouge, La.

Sealed bids will be received by the Commission Council of Baton Rouge, La., at the office of the Mayor, City Hall, until 11 o'clock a.m., Tuesday, August 7, 1923, for paving St. Louis Street from Government to Louisiana Avenue. Bids will be received upon brick, bitulithic, sheet asphalt, asphaltic concrete, reinforced concrete paving.

Approximate quantities:

1,600 square yards of pavement.
600 cubic yards excavation.

Plans and specifications are on file in the office of the Consulting Engineer, City Hall. Copies of same may be obtained upon payment of $5.00. A certified check for five hundred dollars, payable to the Commissioner of Finance, Baton Rouge, shall accompany each bid.

The right is reserved to reject any or all bids.

J. W. BILLINGSLEY.
Consulting Engineer.

Bids: August 22.

Water Works System

Joy, Ill.

Sealed bids will be received by the Village of Joy, Mercer County, Illinois, up to the hour of 10 o'clock A.M. of Aug. 22, 1923, for the construction of a complete water distribution system including trenching, cast iron pipe, valves, hydrants and specials. It is estimated that there will be approximately 1,327 ft. of 8 in. Class B pipe, 2,885 ft. of 6 in. Class B pipe, 11,558 ft. of 4 in. Class B pipe. Bids will be received on the job laid complete. The estimated cost is $25,000.00. Plans and specifications may be secured from the engineers for the sum of $5.00.

CALDWELL ENGINEERING CO.,
Engineers,
Jacksonville, Illinois.